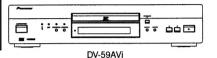
Pioneer sound.vision.soul

PION-06145

Service Manual



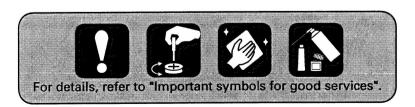
ORDER NO. RRV2816

DVD PLAYER

DV-59AViDV-868AVi-S DV-668AV-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Region No.	Serial No. Confirm 3rd & 4th alphabetical letters.
DV-59AVi	KUXJ/CA	AC120V	1	&&MP#####\$\$
DV-868AVi-S	WYXJ	AC220-240V	2	&&MP#####\$\$
DV-668AV-S	WYXJ	AC220-240V	2	&&MP#####\$\$



PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 ©PIONEER CORPORATION 2003

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

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This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

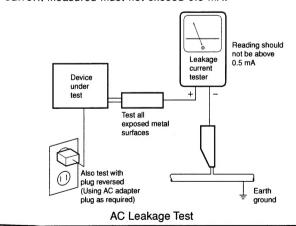
(FOR USA MODEL ONLY) -

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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DV-59AVi

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING!

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1.

A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

- LASER DIODE CHARACTERISTICS -

FOR DVD: MAXIMUM OUTPUT POWER: 5 mW

WAVELENGTH: 650 nm

FOR CD: MAXIMUM OUTPUT POWER: 5 mW

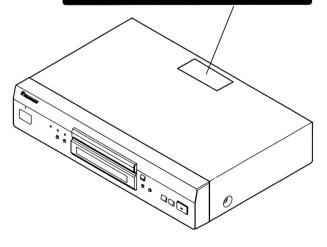
WAVELENGTH: 780 nm

LABEL CHECK [DV-868AVi-S and DV-668AV-S Only]

Location: Printed on the Rear Panel

CLASS 1 LASER PRODUCT

CAUTION	: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM
VORSICHT	. SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENNABDECKUNG GEÖFFNET * NICHT DEM STRAHL AUSSETZEN!
ADVARSEL	, SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARNING	, SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA • EJ STRÅLEN.
VARO!	. AVATTAESSA ALTISTUT NÄKYVÄ JA NÄKYMÄTTÖMÄLLE LASERSATEIL YLLE. ÄLÄ * KATSO SÄTEESEN.
CUIDADO	. RADIACIÓN LÁSER VISIBLE E INMSIBLE AL ESTAR ABIERTO. EVITAR EXPOSICIÓN AL RAYO. VRIWIBI



Additional Laser Caution

- 1. Loading-status detection switch (S101 on the LOAB assy) are detected by the microprocessor (IC601 in the DVDM assy).
 - To permit the laser diode to oscillate, it is required to set tie loadingstatus detection switch for the clamp position (the center terminal of S101 is shorted to +3V).
 - When the voltage of IC101-pin 21 is +3V, IC601 (microprocessor) -pin 83 is +3V and IC601-pin 84 is +3V, 650nm laser diodelo $\bf r$ DVD oscillates in the DVDM Assy.
 - When the voltage of IC101-pin 21 is +3V, IC601 (microprocessor) -pin 83 is 0V (GND) and IC601-pin 84 is +3V, 780nm laser ficide for CD oscillates in the DVDM Assy.
- In the test mode *, the laser diode oscillates when microprocessor detects a PLAY signal, or when the PLAY key is pressed (\$) O4 ON in the FLKY assy), with the above requirements satisfied.
- 2. When the cover is open, close viewing through the objectiv: I ens with the naked eye will cause exposure to the laser beam.

* : See page 79.

DV-59AVi

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[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are registered trademarks of Digital Theater Systems, Inc.
- TruSurround and the () symbol are trademarks of SRS Labs, Inc. TruSurround technology is incorporated under license from SRS Labs, Inc.

DV-59AVi

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1. SPECIFICATIONS

DV-59AVi	Audio output (1 stereo pair)
	Output level During audio output 200 mVrms (1 kHz, -20 dB)
General	Number of channels
System	Jacks RCA jack
DV-59AViAC 120 V, 60Hz	
27 007 (11 11 11 11 11 11 11 11 11 11 11 11 11	Audio output (multi-channel / L, R, C,
Power consumption 18 W	SW, LS, RS)
Power consumption (standby) DV-59AVi	Output level During audio output 200 mVrms (1 kHz, -20 dB)
DV-59AVI	Number of channels
Weight	JacksRCA jack
DV-59AVi 5.5 kg (12 lb 2 oz)	
Dimensions	Audio characteristics
DV-59AVi 420 (W) x 109 (H) x 278 (D) mm	Frequency response4 Hz to 44 kHz(DVD fs: 96 kHz)
(16 ⁹ /16 (W) x 4 ⁵ /16 (H) x 10 ¹⁵ /16 (D) in.)	4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)
	S/N ratio118dB
Operating temperature	Dynamia ranga 100 04D
Operating temperature+5°C to +35°C Operating humidity5% to 85%	Dynamic range108.8dB
(no condensation)	Total harmonic distortion0.0008 %
HDMI output	Wow and flutter Limit of measurement
HDMI output	(0.001% W. PEAK) or lower
	Digital output
i.LINK output	Optical digital output Optical digital jack
i.LINK output 4 pin (S400)	Coaxial digital outputRCA jack
Component Video output (Y, PB, PR)	
Output level Y: 1.0 Vp-p (75 Ω)	Other terminals
PB, PR: 0.7 Vp-p (75 Ω)	Control in
Jacks	Control Cat :
	Accessories
	Stereo audio cable1
	Video cable
	4-pin S400 i.LINK cable
	Remote control
	AA/R6P dry cell batteries
S-Video output	These operating instructions
Y (luminance) - Output level 1 Vp-p (75 Ω)	Warranty Caru
C (color) - Output level 286 mVp-n (75 Q)	
C (color) - Output level 286 mVp-p (75 Ω)	M Nata
C (color) - Output level 286 mVp-p (75 Ω) Jack S-Video jack	Ø Note
C (color) - Output level 286 mVp-p (75 Ω) Jack S-Video jack Video output	The specifications and design of this
C (color) - Output level 286 mVp-p (75 Ω) Jack S-Video jack	

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General
SystemDVD Player
Power requirements AC 220-240 V, 50/60 Hz
Power consumption
DV-868AVi
DV-668AV
Power consumption (standby) 0.3 W
Weight
DV-868AVi
DV-668AV5.4 kg
Dimensions 400 (AA) :: 100 (LI) :: 970 (D) ====
DV-868AVi 420 (W) x 109 (H) x 279 (D) mm DV-668AV 420 (W) x 100 (H) x 278 (D) mm
Operating temperature +5°C to +35°C
Operating humidity 5% to 85%
(no condensation)
HDMI output
HDMI output 19 pin
HDIVII output 19 piii
i.LINK output
(DV-868AVi only)
i.LINK output

Component Video output (Y, PB, PR)

Output level	Y: 1.0 Vp-p (75 Ω)
	PB, PR: 0.7 Vp-p (75 Ω)
Jacks	RCA jacks

S-Video output

Y (luminance) - Output level	1 Vp-p (75 Ω)
C (color) - Output level	. 286 mVp-p (75 Ω)
Jack	S-Video jack

Video output

Output level										1	Vp-p (75 Ω)
Jack											RCA jack

AV connector output

AV Connector (21-pin connector assignment)
AV connector output21-pin connector

This connector provides the video and audio signals for connection to a compatible color TV or monitor.





PIN no.
1 Audio 2/R out
3
4
7 B* out
8 Status
11 G* out
15 R* or C* out
17
19 Video out or Y* out
21
* AV CONNECTOR 1 (RGB)-TV/AV Receiver is
output

Audio output (1 stereo pair)

Output level During audio output	t
200 mVrms (1 kHz, -20 dB)	1
Number of channels)
Jacks RCA jack	(

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level	During audio output
	200 mVrms (1 kHz, -20 dB)
Number of channels	6
Jacks	RCA jack

Audio characteristics

Audio characteristics
Frequency response
S/N ratio
Dynamic range
DV-868AVi
DV-668AV108dB
Total harmonic distortion
DV-868AVi0.0008 %
DV-668AV 0.001 %
Wow and flutter Limit of measurement
(0.001% W. PEAK) or lower

Digital output

Optical digital output	Optical digital jack
Coaxial digital output	RCA jack

Other terminals

Control in .		٠								,	Minijack (3.5 ø)
Control out										,	Minijack (3.5 ø)

Accessories

Stereo audio cable1
Video cable
4-pin S400 i.LINK cable (<i>DV-868AVi only</i>)1
Power cable
Remote control1
AA/R6P dry cell batteries
These operating instructions
Warranty card1

⊘ Note

• The specifications and design of this product are subject to change without notice, due to improvement.

DV-59AVi

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2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to ▼ mark on product are used for disassembly.
 For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

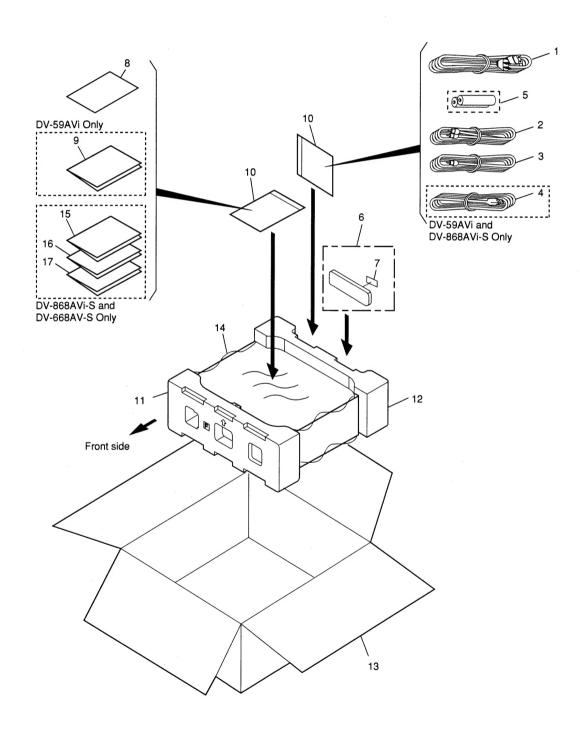
2.1 PACKING

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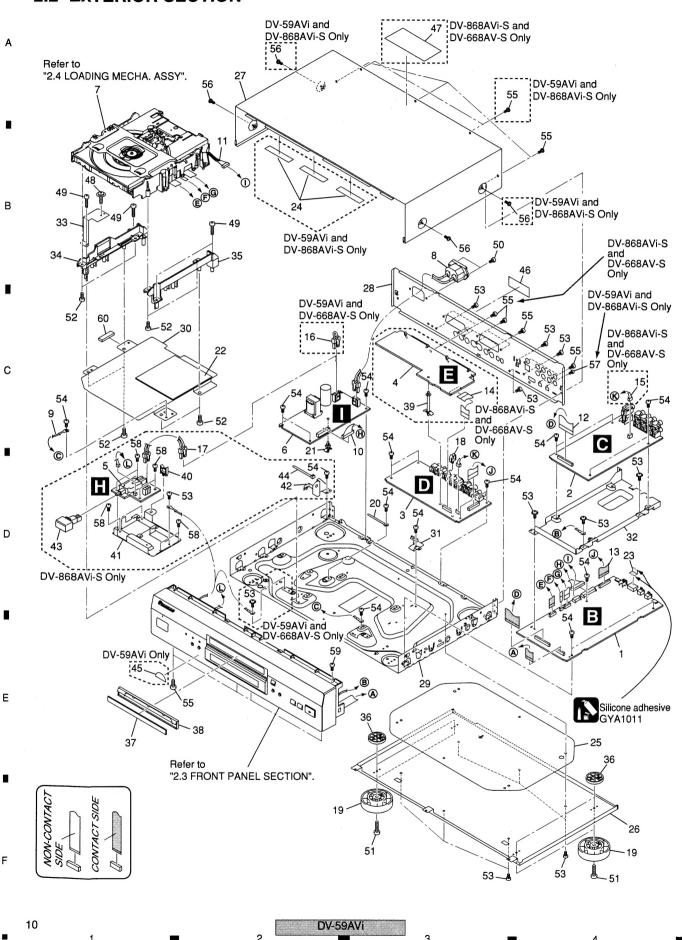
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PACKING parts List

Mark No.		<u>Description</u>	Part No.	Mark No.	Description	Part No.	
\triangle	1	Power Cable	See Contrast table (2)	11	Pad F	VHA1350	
	2	Stereo Audio Cable (L = 1.5 m)	VDE1064	12	Pad R	VHA1351	
	3	Video Cable (L = 1.5 m)	VDE1065	13	Packing Case	See Contrast table (2)	
	4	4-pin S400 i.LINK Cable	See Contrast table (2)	14	Mirror Mat Sheet	VHL1068	
		(L = 1.5 m)		15	Operating Instructions	See Contrast table (2)	
NSP	5	AA/R6P Dry Cell Battery	VEM1031		(English / Spanish)		
	6	Remote Control	See Contrast table (2)	16	Operating Instructions	See Contrast table (2)	
	7	Battery Cover	See Contrast table (2)		(French / German)		
NSP	8	Warranty Card	See Contrast table (2)	17	Operating Instructions	See Contrast table (2)	
	9	Operating Instructions (English)	See Contrast table (2)		(Italian / Dutch)		
	10	Polyethylene Bag	VHL1051				

(2) CONTRAST TABLE DV-59AVi/KUXJ/CA, DV-868AVi-S/WYXJ and DV-668AV-S/WYXJ are constructed the same except for the following :

Mark	No.	Symbol and Description	DV-59AVi /KUXJ/CA	DV-868AVi-S /WYXJ	DV-668AV-S /WYXJ
Δ	1	Power Cable	ADG7061	ADG7062	ADG7062
	4	4-pin S400 i.LINK Cable	VDE1076	VDE1076	Not used
		(L = 1.5 m)			
	6	Remote Control	VXX2893	VXX2894	VXX2894
	7	Battery Cover	VNK4423	VNK4936	VNK4936
NSP	8	Warranty Card	ARY7007	ARY7065	ARY7065
	9	Operating Instructions (English)	VRB1327	Not used	Not used
	13	Packing Case	VHG2433	VHG2434	VHG2435
	15	Operating Instructions	Not used	VRD1187	VRD1187
		(English / Spanish)			
	16	Operating Instructions	Not used	VRD1185	VRD1185
		(French / German)			
	17	Operating Instructions	Not used	VRD1186	VRD1186
		(Italian / Dutch)			



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BBZ30P180FMC

CBZ30P08OFZK

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Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DVDM Assy	See Contrast table (2)	31	PCB Base HE	VNE2329
2	AJKB Assy	See Contrast table (2)	32	PCB Holder AJ	VNE2330
3	VJKB Assy	See Contrast table (2)	33	Shield Plate	VNF1125
4	SCRB Assy	See Contrast table (2)	34	Adapter 27 L	VNL1926
5	MSWB Assy	See Contrast table (2)	35	Adapter 27R	VNL1927
△ 6	POWER SUPPLY Unit	VWR1375	36	Spacer	VNL1966
NSP 7	LOADING MECHA. Assy	VWT1207	37	Door	See Contrast table (2)
∆ 8	AC Inlet Assy	ADX7406	38	Tray Panel	See Contrast table (2)
NSP 9	Earth Lead Jumper Wire	DE010VC0	39	PCB Holder	See Contrast table (2)
10	Connector Assy	PF13PP-D25	40	Wire Saddle	See Contrast table (2)
11	Connector Assy	PG05KK-E27	41	PCB Holder 2	See Contrast table (2)
12	FFC (33P, AJKB)	VDA1971	42	Stopper	See Contrast table (2)
13	FFC (23P, VJKB)	VDA1972	NSP 43	Power Key 2	See Contrast table (2)
14	FFC (19P, SCRB)	See Contrast table (2)	NSP 44	Binder (BK-1)	See Contrast table (2)
15	Connector Assy	See Contrast table (2)	NSP 45	Energy Star Label	See Contrast table (2)
△ 16	Housing Assy	See Contrast table (2)	NSP 46	ID Label Assy	See Contrast table (2)
NSP 1	7 Housing Assy (2P)	See Contrast table (2)	47	Caution Label	See Contrast table (2)
18	Mini Clamp	AEC7373	48	Screw	Z39-019

21	PCB Support	VEC2184	51	Screw	BBZ30P12OFMC
22	MH Spacer 2	VEC2319	52	Screw	BPZ30P08OFNI
23	Bronze Tape	VEC2403	53	Screw	IBZ30P080FCC
24	Sheet	See Contrast table (2)	54	Screw	BBZ30P06OFCC
NSP 25	Bottom Plate	VNA2469	55	Screw	BBZ30P08OFCC
NSP 26	Layered Chassis	VNA2651	56	Screw	See Contrast table (2)

See Contrast table (2)

RNH-184

49 Screw

Screw

50

57 Screw See Contrast table (2) 27 Bonnet S See Contrast table (2) 58 Screw See Contrast table (2) 28 Rear Panel See Contrast table (2) BPZ30P10OFMC 59 Screw VNA2666 NSP 29 Base Chassis NSP 60 Tape ZTA-156A-19 VNE2266 30 Mechanism Holder

(2) CONTRAST TABLE

19 Insulator

20 Cord Clamper

EXTERIOR SECTION parts List

DV-59AVi/KUXJ/CA, DV-868AVi-S/WYXJ and DV-668AV-S/WYXJ are constructed the same except for the bllowing:

Mark	No.	Symbol and Description	DV-59AVi /KUXJ/CA	DV-868AVi-S /WYXJ	DV-668AV-S /WYXJ
	1	DVDM Assy	VWS1568	VWS1568	VWS1569
	2	AJKB Assy	VWV1984	VWV1985	VWV1990
	3	VJKB Assy	VWV1986	VWV1988	VWV1989
	4	SCRB Assy	Not used	VWV1992	VWV1992
	5	MSWB Assy	Not used	VWG2455	Not used
	14	FFC (19P, SCRB)	Not used	VDA1973	VDA1973
	15	Connector Assy	Not used	PG03KK-E15	PG03KK-E15
\triangle	16	Housing Assy	VKP2284	Not used	VKP2284
⚠ NSP	17	Housing Assy (2P)	Not used	VKP2307	Not used
	19	Insulator	PNW2766	PNW2766	VXA2424
	24	Sheet	VED1011	VED1011	Not used
	27	Bonnet S	VXX2900	VXX2901	VXX2847
	28	Rear Panel	VNA2658	VNA2659	VNA2660
	37	Door	VEC2302	VEC2278	VEC2278
	38	Tray Panel	VNK5084	VNK5085	VNK5085

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DV-59AVi DV-868AVi-S DV-668AV-S Mark No. Symbol and Description /KUXJ/CA /WYXJ /WYXJ VEC2215 VEC2215 39 PCB Holder Not used 40 Wire Saddle VEC2310 Not used Not used PCB Holder 2 VNE2283 41 Not used Not used 42 Stopper VNE2328 Not used Not used NSP 43 Power Key 2 VNK5103 Not used Not used NSP 44 Binder (BK-1) Not used ZCA-BK1 Not used NSP 45 Energy Star Label AAX8022 Not used Not used NSP 46 ID Label Assy VXW1004 VXW1004 VXW1003 47 Caution Label Not used VRW1872 VRW1872 56 Screw BCZ40P060FZK BCZ40P060FNI BCZ40P060FNI BBZ26P060FZK 57 Screw BBZ26P060FZK Not used 58 Screw BBZ30P080FZK Not used Not used

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FRONT PANEL SECTION parts List

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Mark No.	<u>Description</u>	Part No.	Mark No.	Description	Part No.
1	FLKY Assv	See Contrast table (2)	6	Aluminum Panel	See Contrast table (2)
2	KEYB Assy	See Contrast table (2)	7	FL Filter	See Contrast table (2)
3	FFC (17P, FLKB)	VDA1970	8	FL Lens	See Contrast table (2)
4	Connector Assy	See Contrast table (2)	9	Panel Base Assy	See Contrast table (2)
5	Pioneer Name Plate	See Contrast table (2)	NSP 10	LED Lens 2	See Contrast table (2)
			11	Screw	BBZ30P080FCC

(2) CONTRAST TABLE DV-59AVi/KUXJ/CA, DV-868AVi-S/WYXJ and DV-668AV-S/WYXJ are constructed the same except for the following :

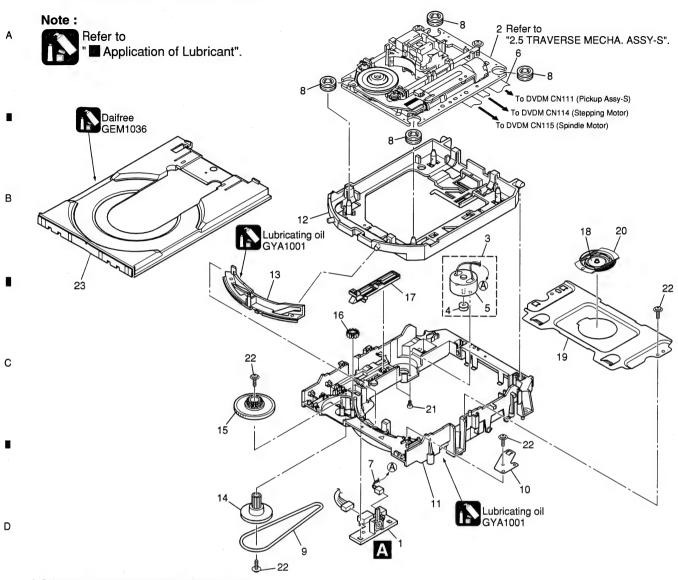
Mark	No.	Symbol and Description	DV-59AVi /KUXJ/CA	DV-868AVi-S /WYXJ	DV-668AV-S /WYXJ
	1	FLKY Assy	VWG2459	VWG2456	VWG2448
	2	KEYB Assy	VWG2460	VWG2457	VWG2449
	4	Connector Assy	Not used	PF02PP2R07	Not used
	5	Pioneer Name Plate	PAN1376	VAM1124	VAM1124
	6	Aluminum Panel	VAH1419	VAH1420	VAH1421
	7	FL Filter	VEC2280	VEC2281	VEC2281
1	8	FL Lens	VEC2384	VEC2385	VEC2386
	9	Panel Base Assy	VXA2623	VXA2624	VXA2625
NSP	10	LED Lens 2	Not used	VNK5105	Not used

15

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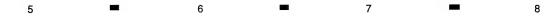
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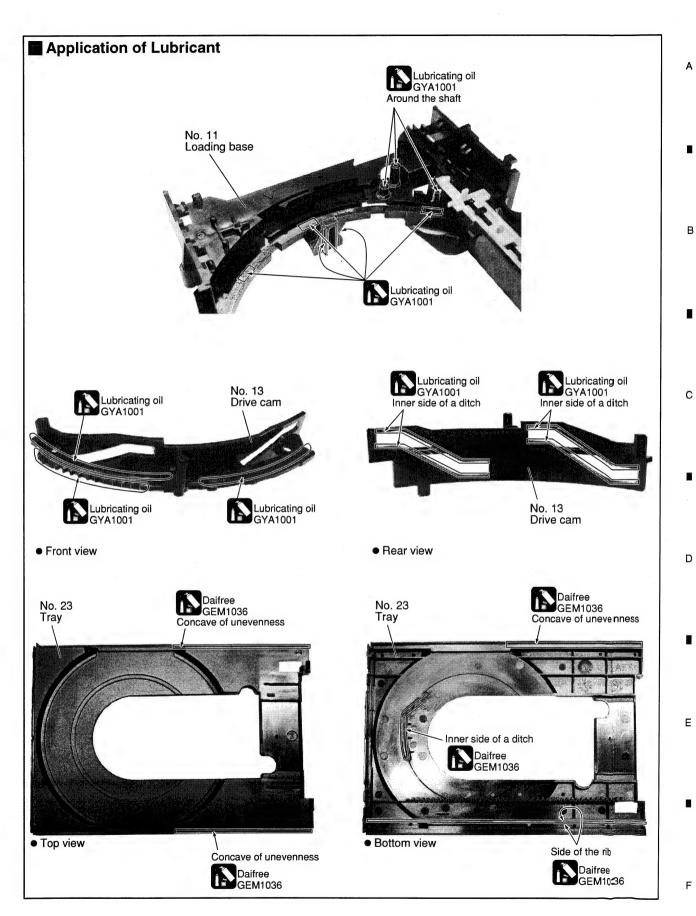
2.4 LOADING MECHA. ASSY



LOADING MECHA. ASSY parts List

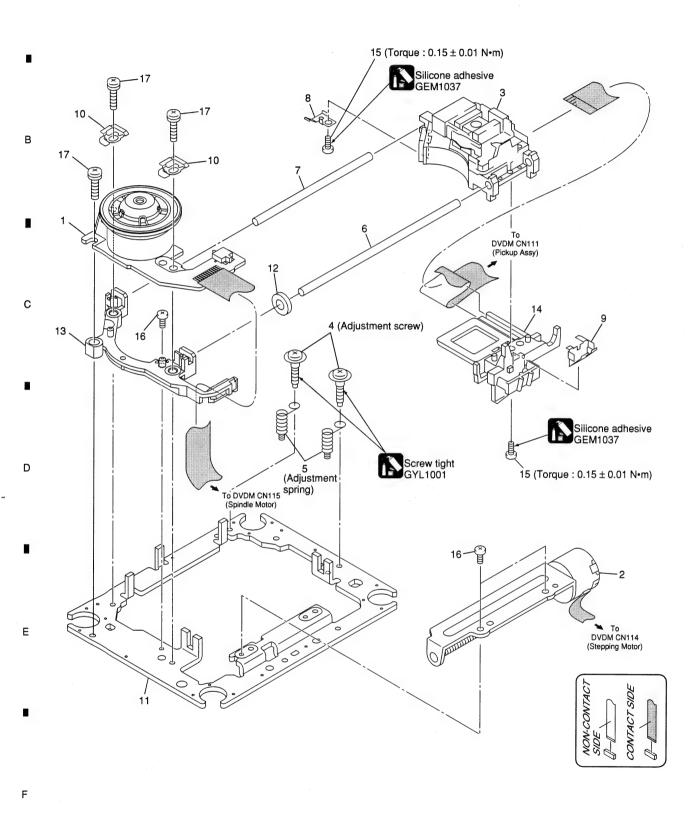
		•				
	Mark No.	Description	Part No.	Mark No.	Description	Part No.
	NSP 1	LOAB Assy	VWG2426	17	SW Lever	VNL1925
	2	Traverse Mecha. Assy-S	VXX2871	18	Clamper Plate	VNE2251
	3	Loading Motor Assy	VXX2872	19	Bridge	VNE2252
	4	Motor Pulley	PNW1634	20	Clamper	VNL1924
Е	. 5	Motor	VXM1105			
_				21	Screw	JGZ17P028FMC
	6	Flexible Cable (24P)	VDA1947	22	Screw	Z39-019
	7	Connector Assy 2P	VKP2253	23	Tray	VNL1920
	8	Floating Rubber	VEB1351			
_	9	Belt	VEB1330			
	10	Stabilizer	VNE2253			
	11	Loading Base	VNL1917			
	12	Float Base DVD	VNL1918			
	13	Drive Cam	VNL1919			
F	14	Gear Pulley	VNL1921			
	15	Loading Gear	VNL1922			
	16	Drive Gear	VNL1923			
	16	_	2	DV-59AVi	_	
_		-	2		3	4





DV-59AVi

2.5 TRAVERSE MECHA. ASSY-S



TRAVERSE MECHA. ASSY-S parts List

Mark No.	Description	Part No.
1	Spindle Motor	VXM1099
2	Stepping Motor	VXM1101
3	Pickup Assy-S	OXX8005
4	Skew Screw	VBA1080
5	Skew Spring	VBH1335
6	Guide Bar	VLL1514
7	Sub Guide Bar	VLL1515
8	Leaf Spring	VNC1023
9	Joint Spring	VNC1019
10	Support Spring	VNC1020
NSP 11	Mecha.Chassis	VNE2248
12	Damper Sheet	VEB1335
13	Spacer	VNL1913
14	Joint 03	VNL1949
15	Tapping Screw	OBA8021
16	Screw	BBZ20P050FZK
17	Screw	PMA26P100FMC

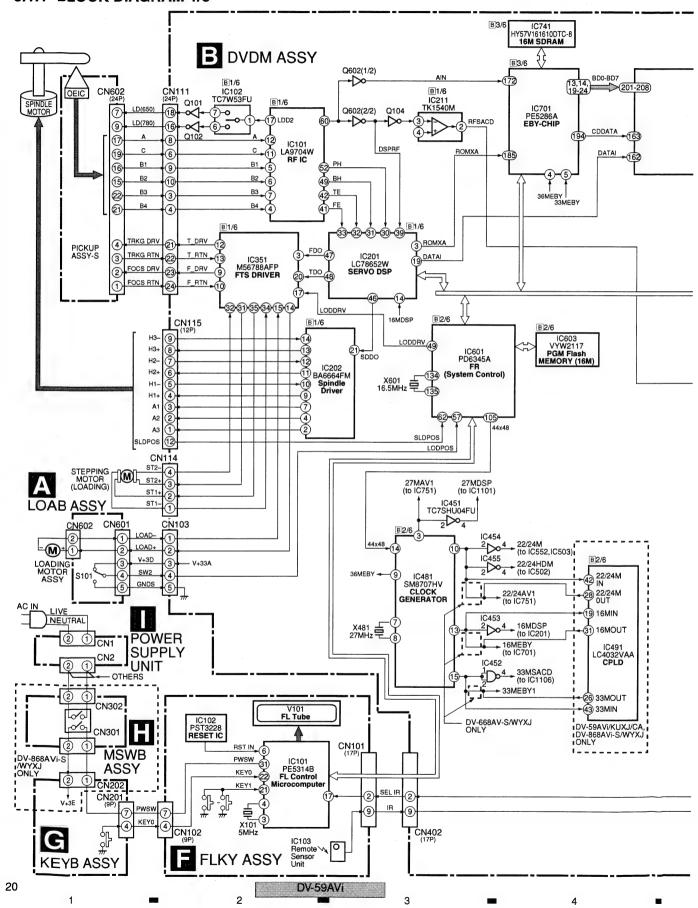
3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

2

3.1 BLOCK DIAGRAM

Ε

3.1.1 BLOCK DIAGRAM 1/3



CN1001 IC781 K4S641632F-TC75 **64M SDRAM** B 4/6 B 4/6 DOUT1_(7) IC1051 HDMI IC802 VYW2118 4M FLASH IC803 BU2370FV PLL IC HDMI OUT Transmitte TX0+,-TX1+,-TX2+,-TXC+,-DOUT1 B3/6 3-14-13 IC786 TC74VHC541FT 17D-B3/6 18 DATA2A DATA2A0 33,34 36,37 TPA1P,TPA1N,TPB1P,TPB1N IC801 TSB43CA42GGW iceLynx-Micro (Mercury) i. LINK Connector IC751 M65776BFP MPEG2 DECODER 164 A000 AV-1 166 DATA1A0 13^{AO0} TPAOP, TPAON, TPBOP, TPBON 184-186 188-192 170 DOUTO JA1 -(53) PD0-PD7 406 IC1001 T-REX X802 24.576MHz 27MAV1 B 4/6 22/24AV1 IC805 PD5787A HOST CPU HOST CON DOWNLOAD DV-59AVi/KUXJ/CA, DV-868AVi-S/WYXJ ONLY CN601 X801 6.144MHz CN901 B 5/6 Q909 8 ≫ Cr Q908 PB0-PB9 PC0-PC9 PPD0-PPD7 PD0-PD7 10 ≫ СЬ 7-14 IC901 CD0040AF
PROGRESSIVE & HI-QUALITY
VIDEO ENCODER
PRO-U 0907 IC903 ADV7310KST (12 BIT) ADV7314KST (14 BIT) VIDEO ENCODER Q905 13 **Do** 16 SY -(A) ₹ Q906 B 5/6 -₽ (18) s_c IC902 HY57V16160DTC-8 16M SDRAM Q904 20 22 SEL_IR Q901 B 6/6 -23 IC1105 HY57V16160DTC-8 16M SDRAM -⊳ IR D IC505 TC74VHC157FT ₿6/6 CN551 DATA1 B6/6 RFSACD 126 DATA1/DSD_C DSD_LFE 10 DATA2A 138 GND/DSD_LFE DATA1 DATA1A 48 DSPD56367PV150 DVD-AUDIO DSP DATA2 DSD_LS_6 (16) DATA2/DSD_LS IC1110 CXD2753R SACD DECODER 27MDSP DSD_RS 14) GND/DSD_RS DV-668AV-S /WYXJ ONLY R559 B 6/6 1C553 TC7WH157FU (5) CD DIRECT **≻**® Ε --W-DATA0 14 DSD_L 13 A00 B 6/6 6 DATAO/DSD L 4 GND/DSD_R DATAOA B)6/6 IC504 TC74VHC157FT IC552 24 PQ0274A AQE 6 DV-59AVi/KUXJ/CA, DV-868AVi-S/WYXJ ONLY 33 DOUT DV-59AVi 21

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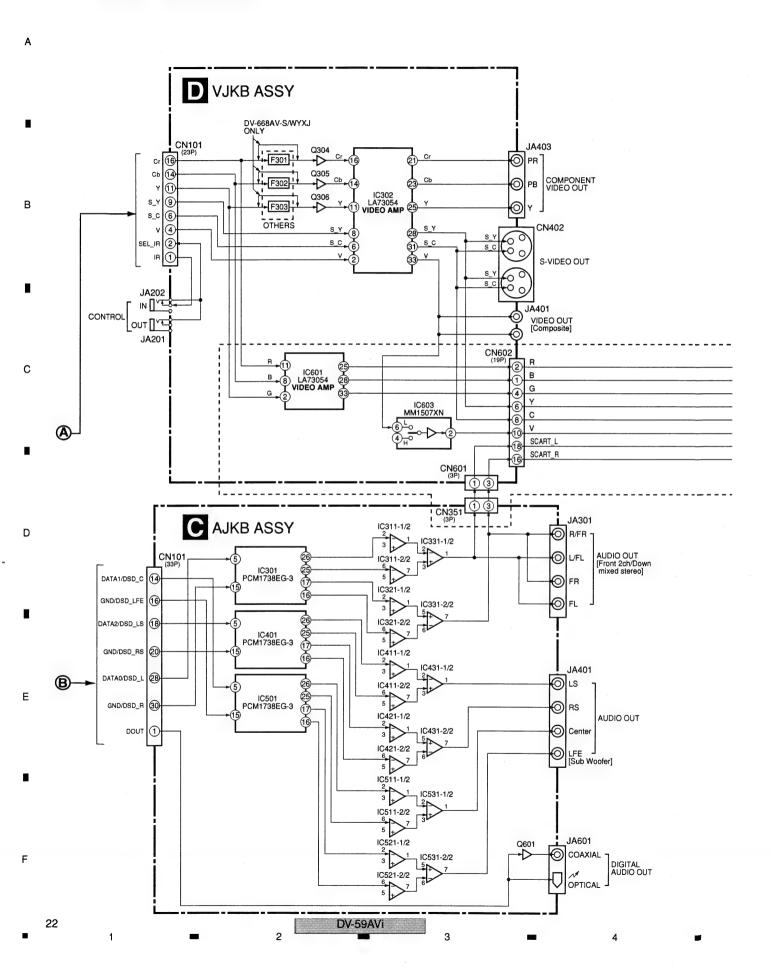
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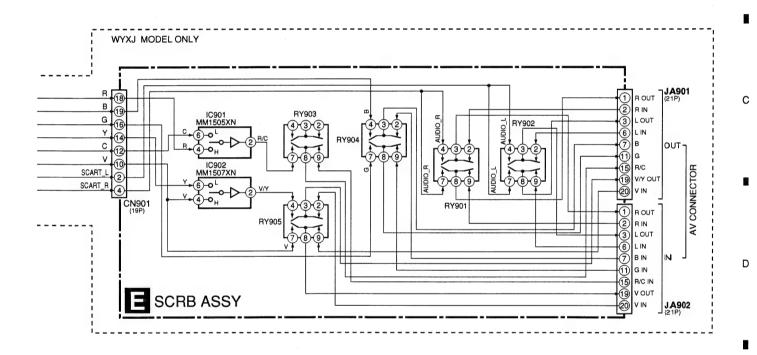
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DV-59AVi 7 8

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DV-868AVi-S/WYXJ ONLY MSWB ASSY S302 POWER CN302 1 2 **B** DVDM ASSY CN901 | EV+6 CN2 T EV+6 LIVE 1 V+6V CN401 (13P) V+6E V+12 IC402 V+5S V+5V MM1565AF # # EV6V(B) ① AC IN EV6V(A) 5V REG. NEUTRAL 2 V+12S -28V SW+12V EV+4V IC405 MJM2880U1-05 V+5HD SW+3.3V POWER 5V REG. CN551 SUPPLY ② V+12 3 V+12 IC404 MM1385EN UNIT V+3D 3V REG. V+3D B 2/6 IC403 PQ025EZ01ZP 2.5V REG. B 2/6 EV+3V IC401 PQ033EZ01ZP V+33B V+12 3.3V REG. CN101 CN402 IC410 MM1561JF V+18 V+33A 1.8V REG. **FLKY ASSY** B 2/6 V+25A IC411 PQ025EZ01ZP 2.5V REG. ► V+33A_AM1 L803 → V+33A_AM2 -- V+33A_DM → V+33A HC

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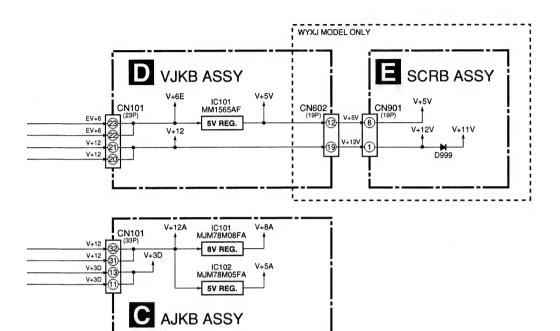
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DV-59AVi

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DV-39AVI 7

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NOTES: • When ordering service parts, be sure to refer to "EXPLODED DV-868AVi-S DV-668AVi-S VIEWS and PARTS LIST" or "PCB PARTS LIST". • The riangle mark found on some component parts indicates the ONLY importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation. SCRB ASSY (VWV1992) • : The power supply is shown with the marked box. CN901 HOST CON SYSCON DOWN LOAD DOWN LOAD NC GNDD V+5D CTS2 DTR0 PXD2 TXD0 NC SNDD SNDD 7+50 CTS DTR TXD CN801 CN403 CN602 CN101 0 VJKB ASSY (DV-59AVi: VWV1986) (DV-868AVi-S: VWV1988) (DV-668AV-S: VWV1989) (a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 DV-868AVi-S, DV-668AV-S ONLY CN601 CN351 3 3 3 3 3 3 3 6 <u></u> JA301 Audio LR/FLFR Out LRCK1/GN C AJKB ASSY V+3D DATA1/DSD_0 (DV-59AVi: VWV1984) (DV-868AVi-S: VWV1985) 6 (D <u>'</u> (DV-668AV-S: VWV1990) GND/DSD_RS । ଡିଡା -12a PBCK0/GNI (E) JA601 DIGITAL OUT COAX & OPT (B) (a) GND GND/DSD_R ์ข

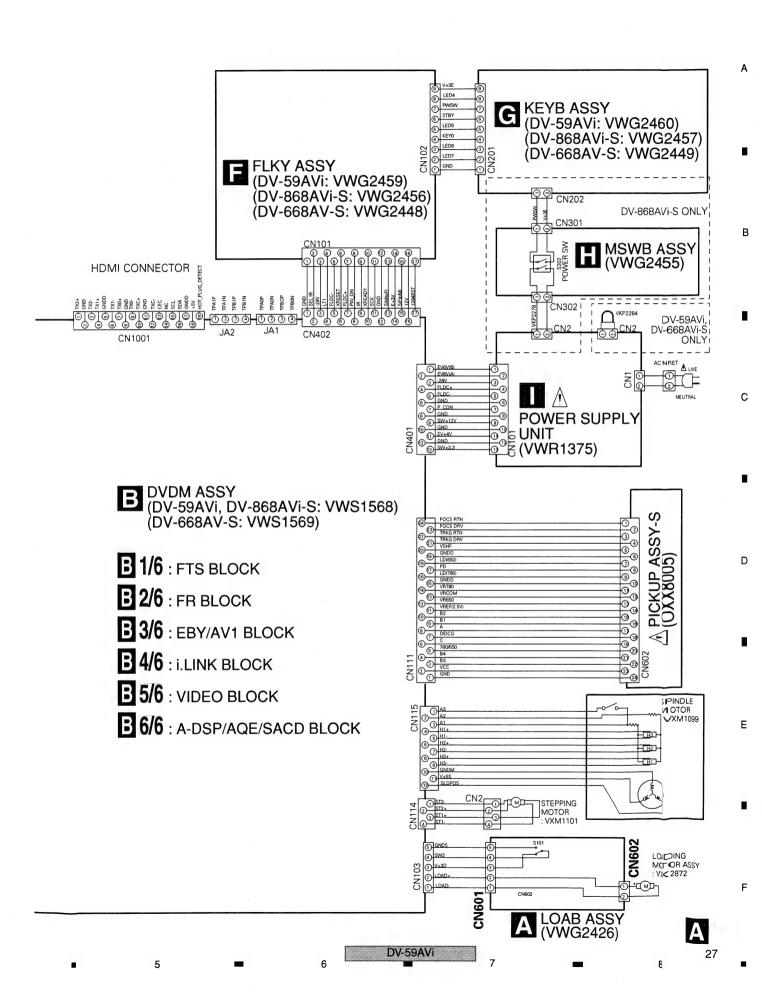
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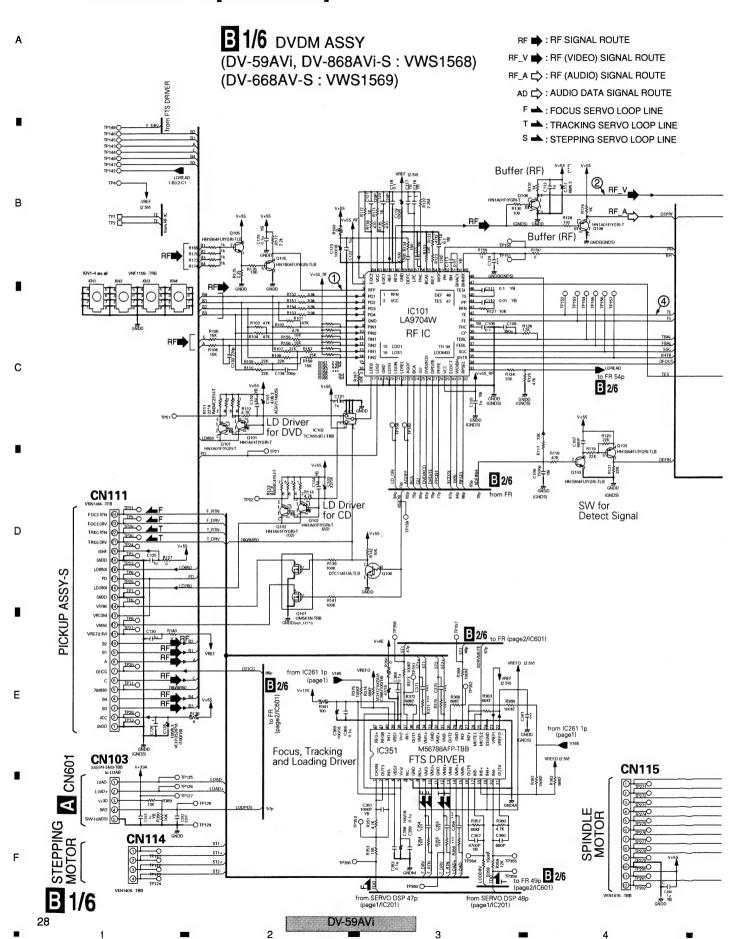
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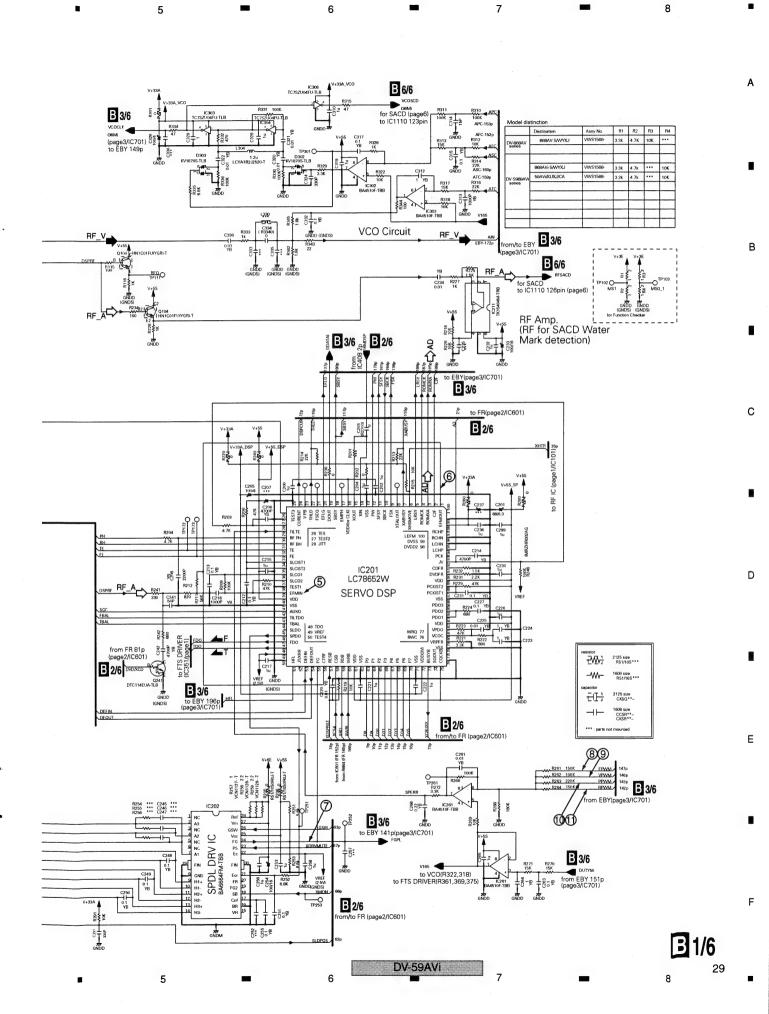
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DV-59AVi

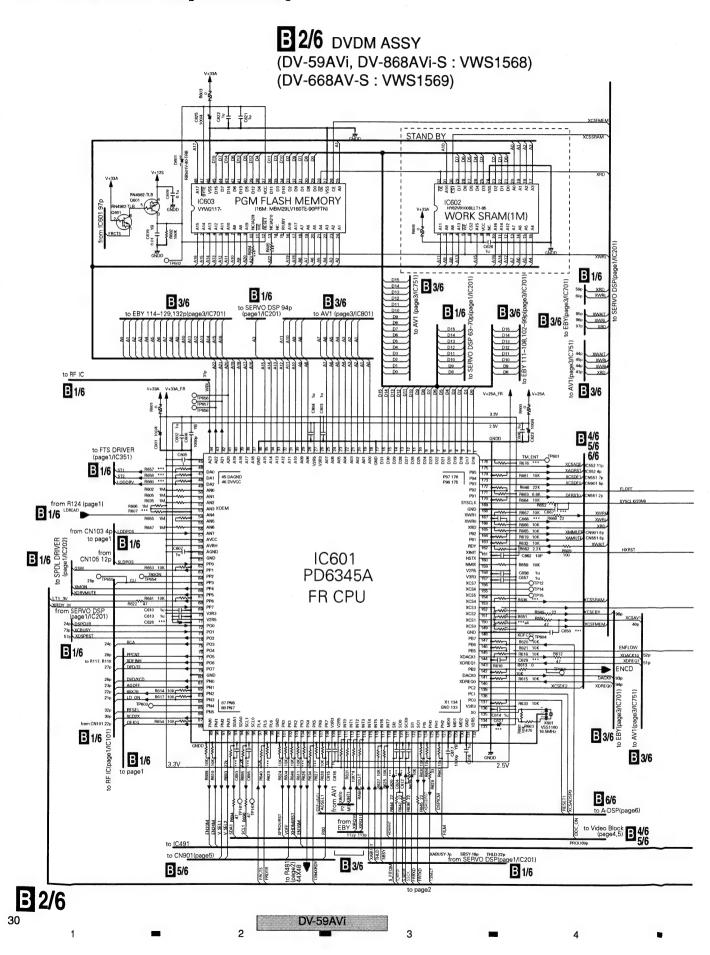
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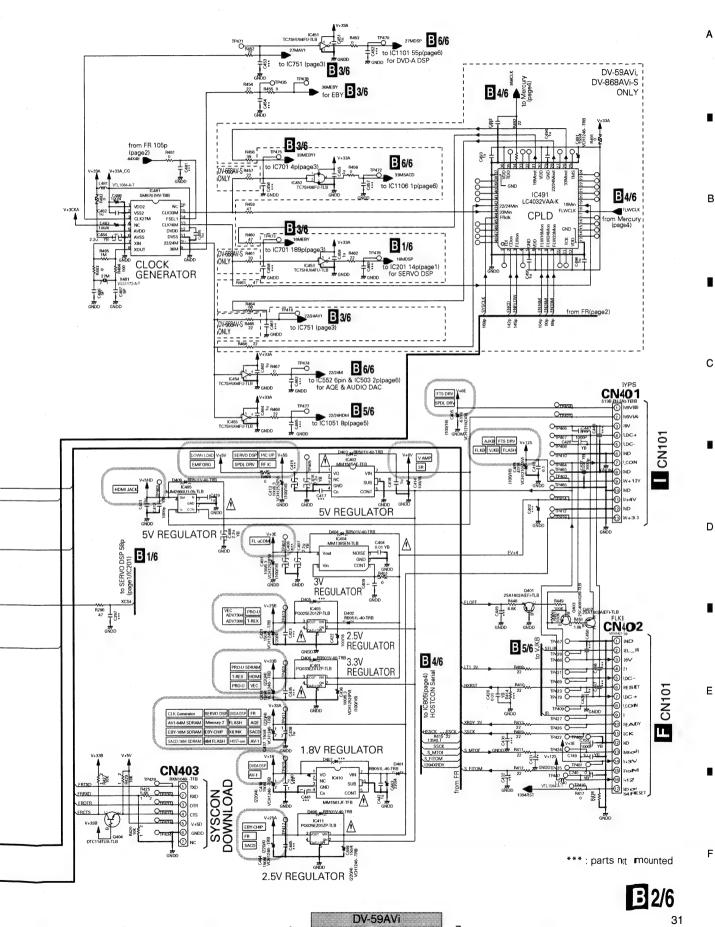






3.4 DVDM ASSY 2/6 [FR BLOCK]





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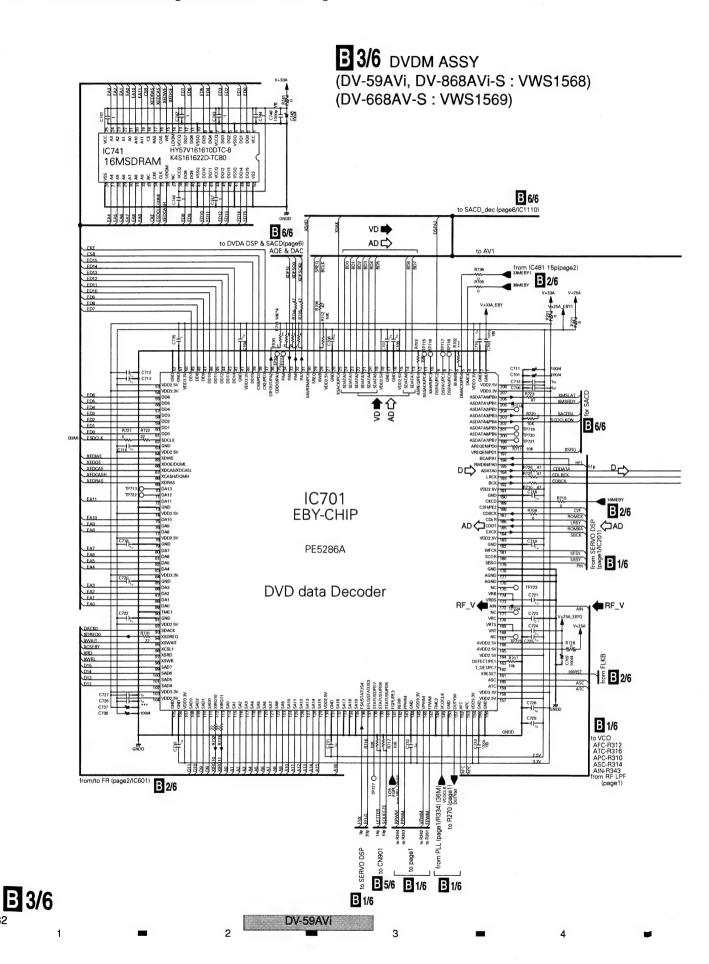
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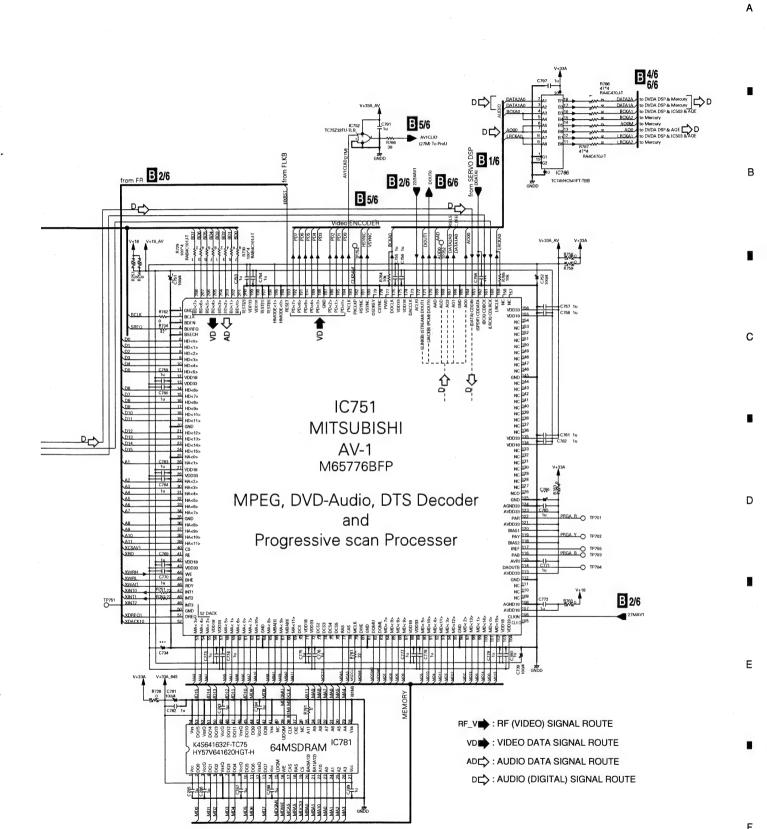
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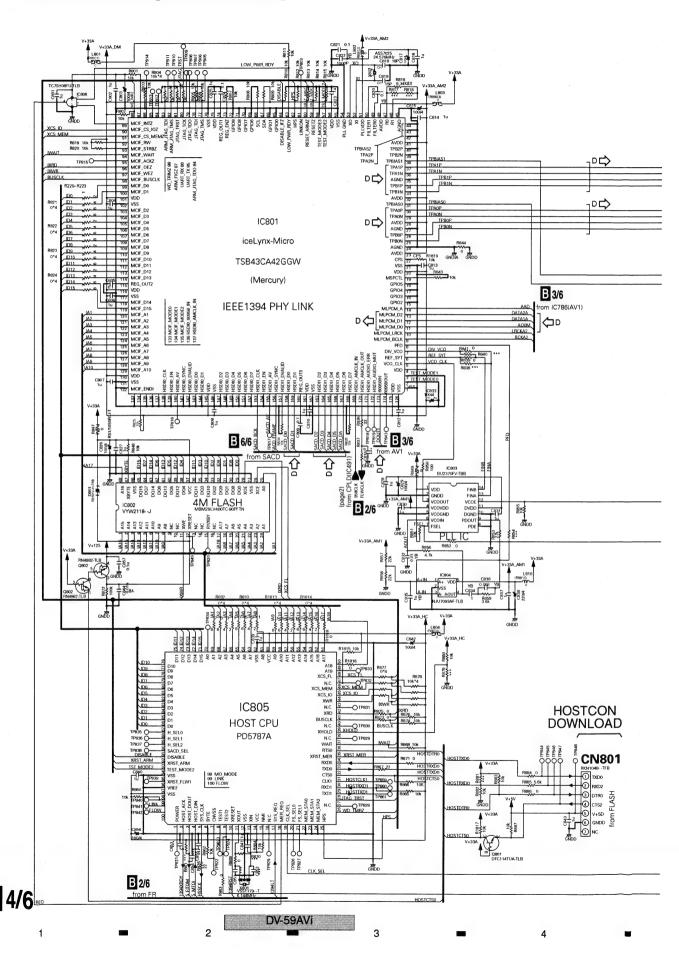
3.5 DVDM ASSY 3/6 [EBY/AV1 BLOCK]





B 3/6

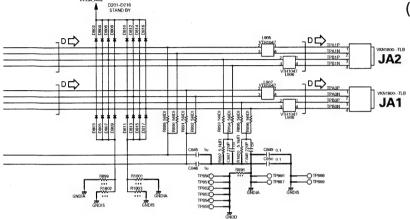
DA-28WAI



All *** are stand by.



B 4/6 DVDM ASSY (DV-59AVi, DV-868AVi-S: VWS1568) (DV-668AV-S: VWS1569)



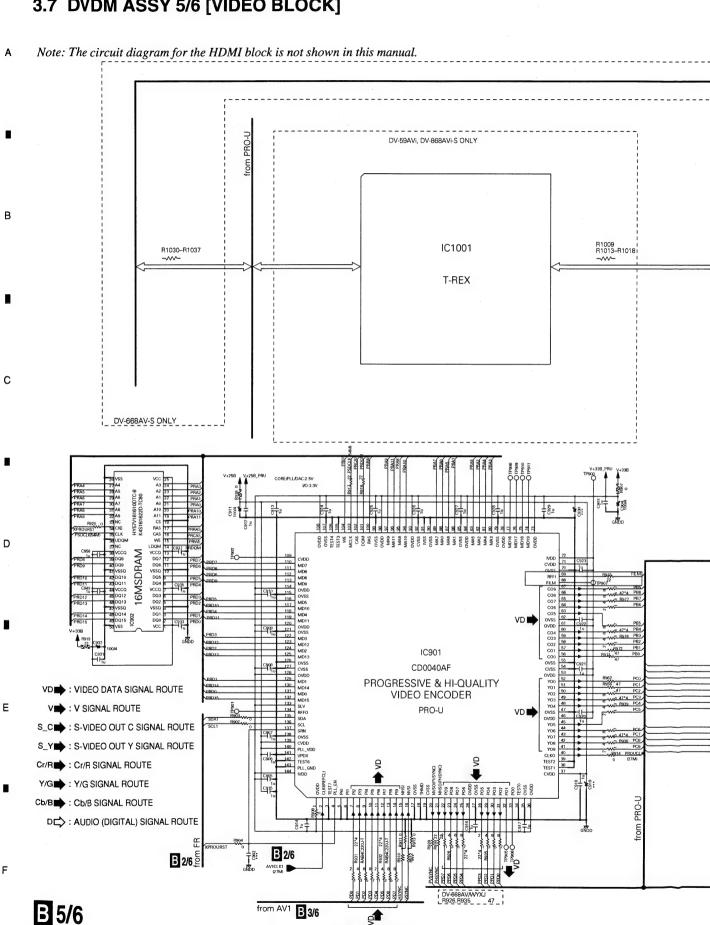
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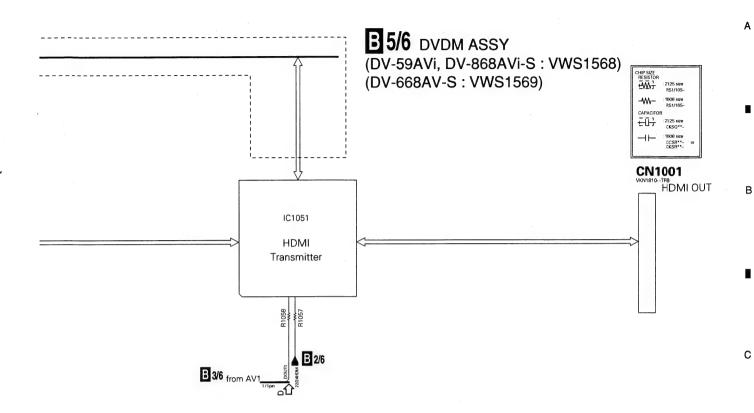
i.LINK connector

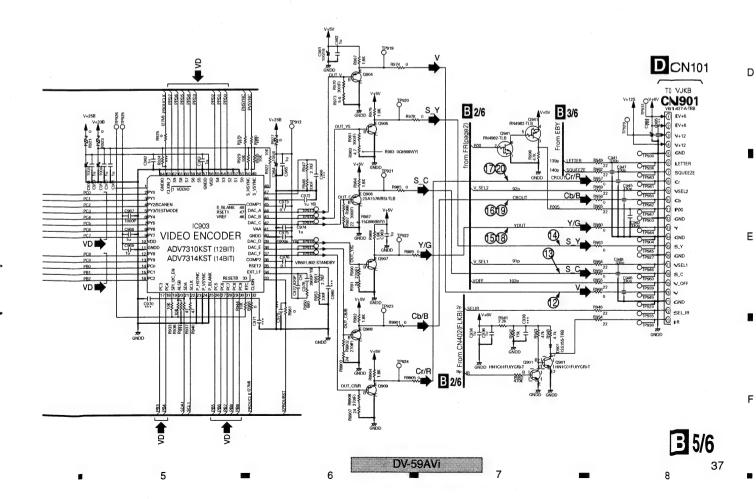
Dば: AUDIO (DIGITAL) SIGNAL ROUTE

С

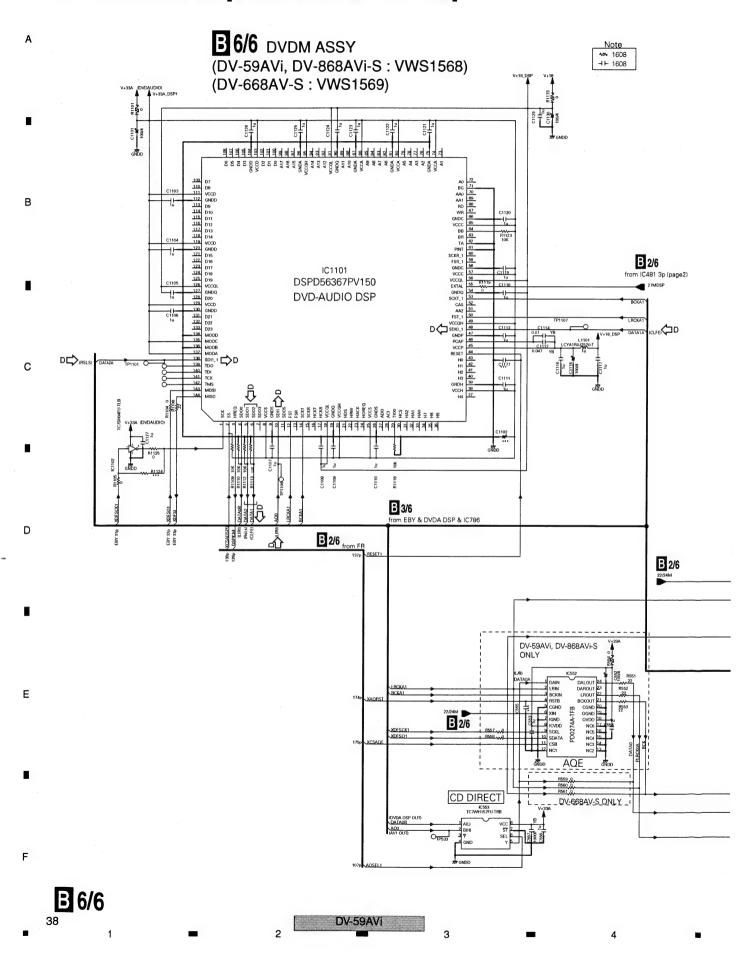
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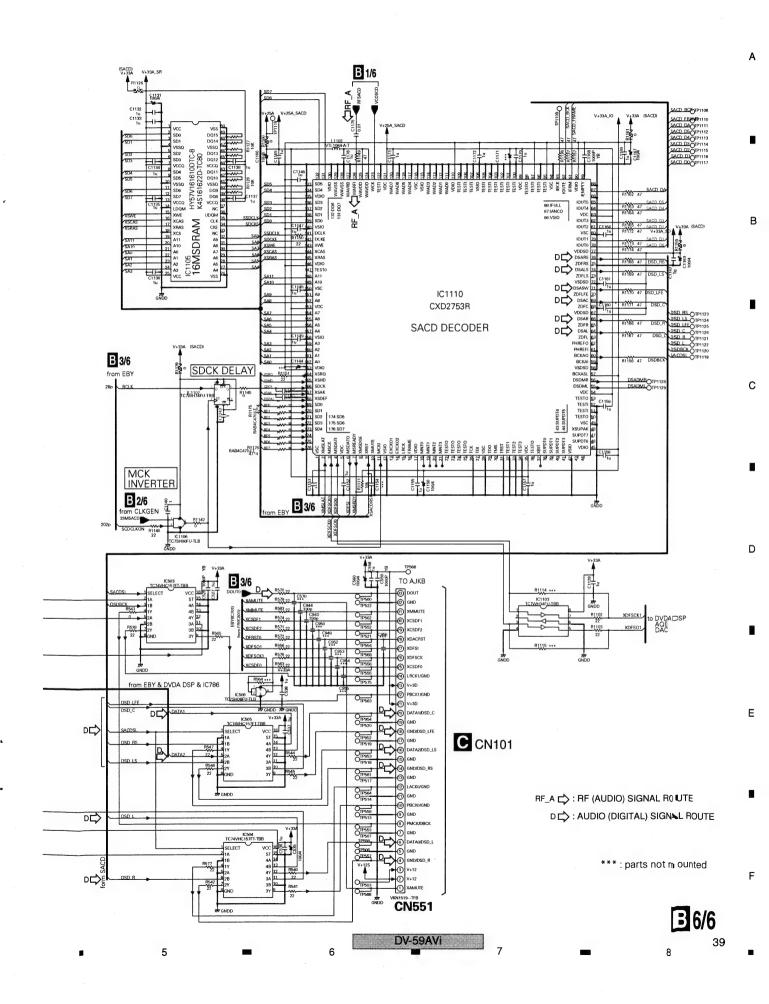


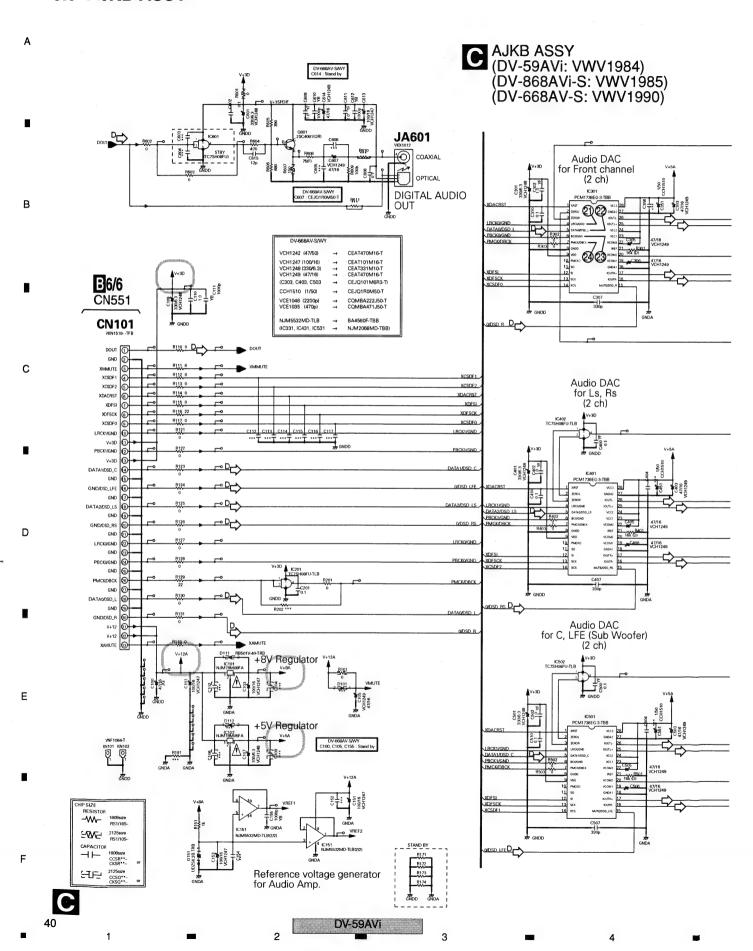


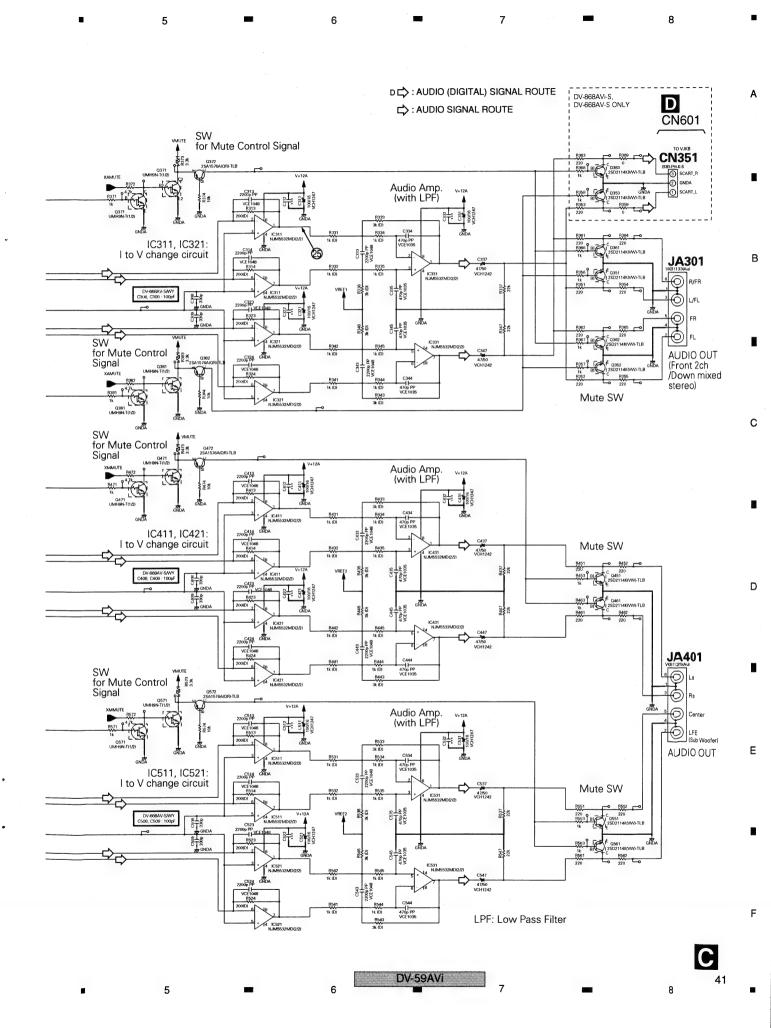


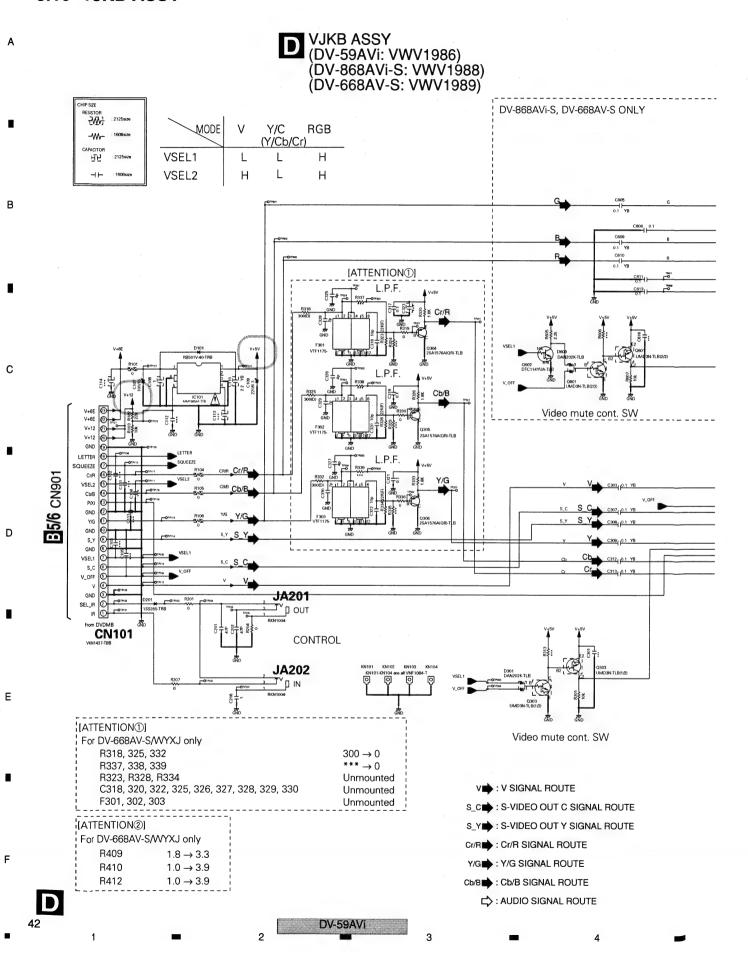
3.8 DVDM ASSY 6/6 [A-DSP/AQE/SACD BLOCK]

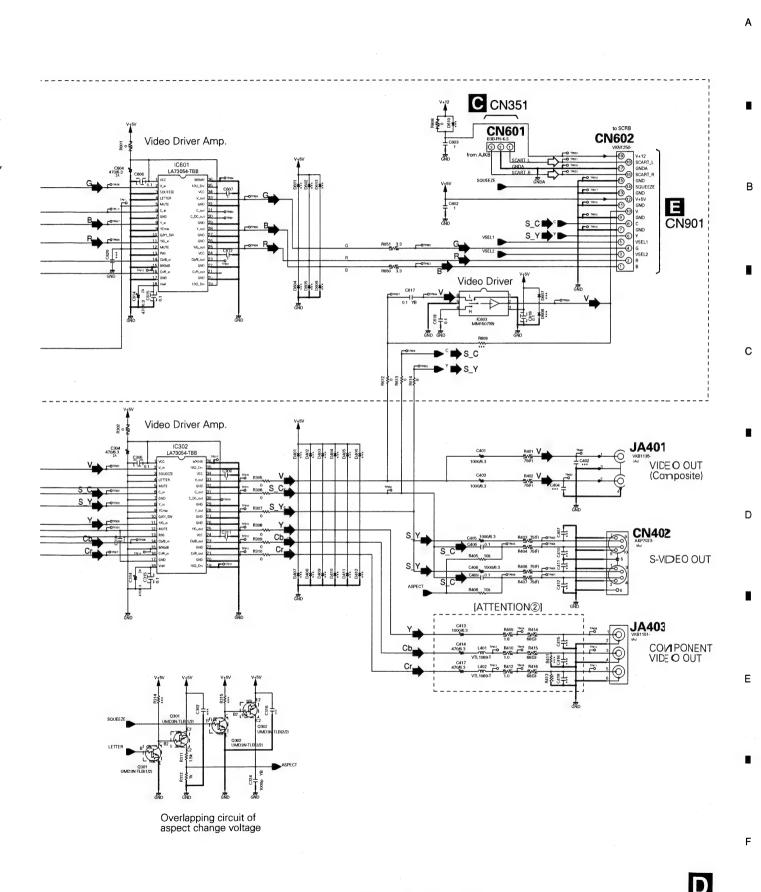


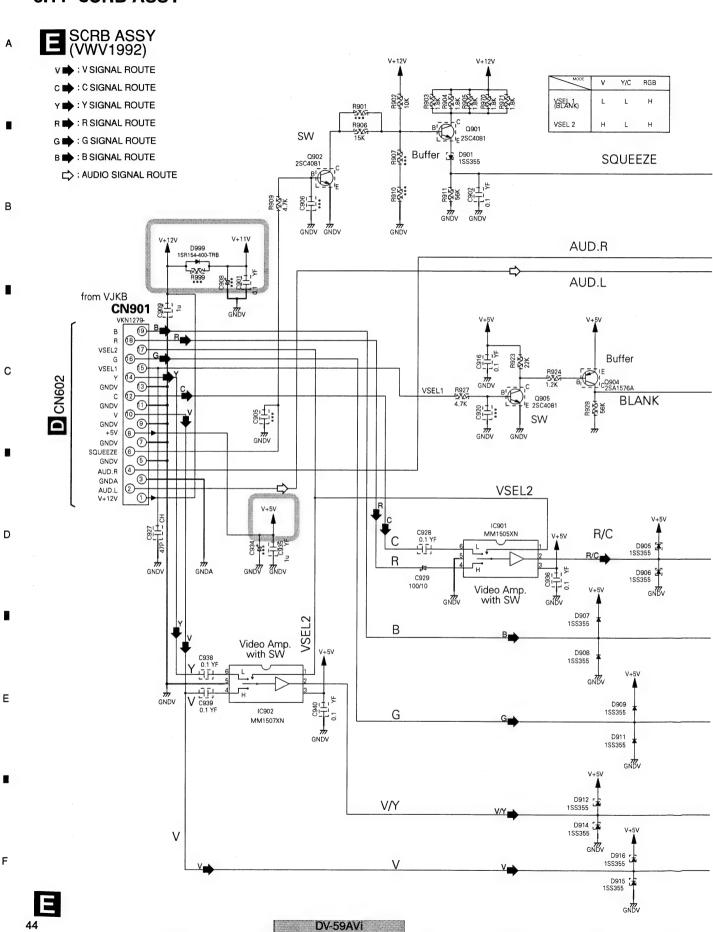












RY901-RY905: Relay SW R912 -5/X/v7 220 AV CONNECTOR VSR1017-P916 95118 386118 SQUEEZE GNDV 90 R919 5272 220 GNDA [3] [3] GNDV C923 GNDV R/C GNDA F G G G -16 BLANK GNDV (SNDV GNDV V/Y OUT (18) V/Y OL V IN GNDV ST. 38 GNDA 7 12 JA902 [IN] ① ② R OUT R IN L OUT RY903 VSR1017-GNDA GNDV L IN , -GNDA GNDA GNDA C933 BIN , -® SQUEEZE IN 999 GNDV NC G IN NC GNDV GNDV R/C IN , -12 15 , 16 BLANK IN GNDV C937 100/10 # R944 GNDV VOUT VIN GNDV <u>ə</u> V+11V GNDV R959 RY904 VSR1017-C943 100/10 GNDV m M R951 GNDV GNDV GNDV GNDV V/Y V+11V RY905 VSR1017-1000/6.3 GNDV ***:parts not mounted 1000/6.3 75 (F) DV-59AVi

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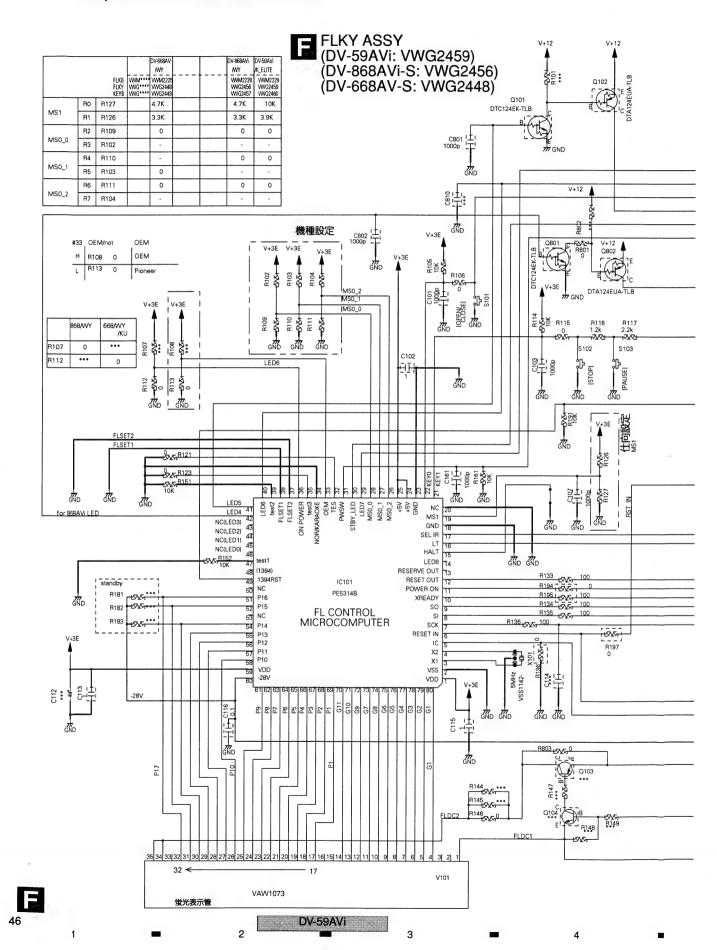
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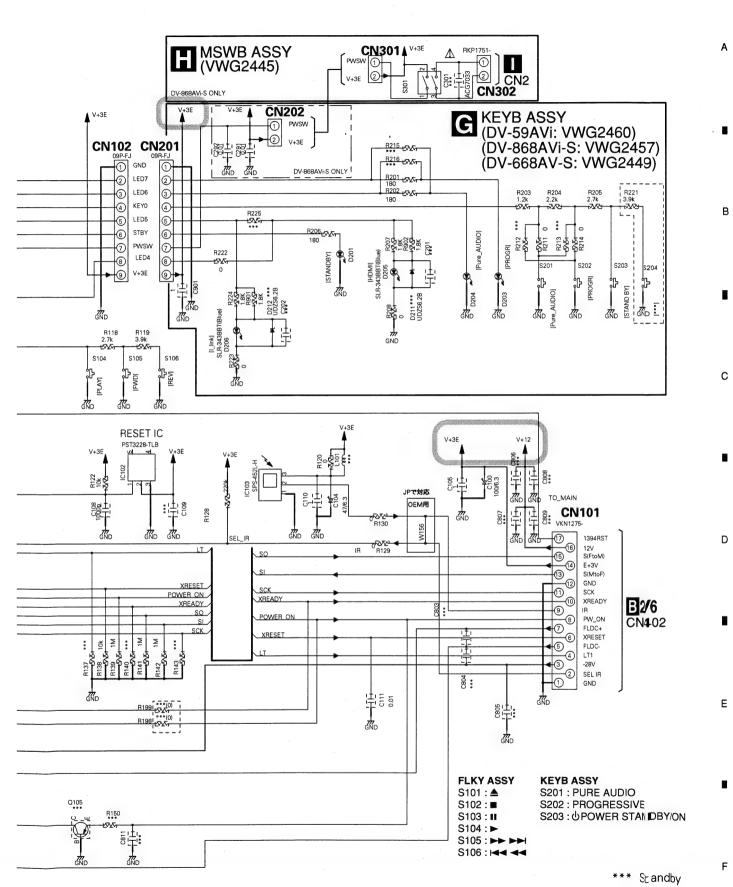
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DV-59AVi

3.13 POWER SUPPLY UNIT

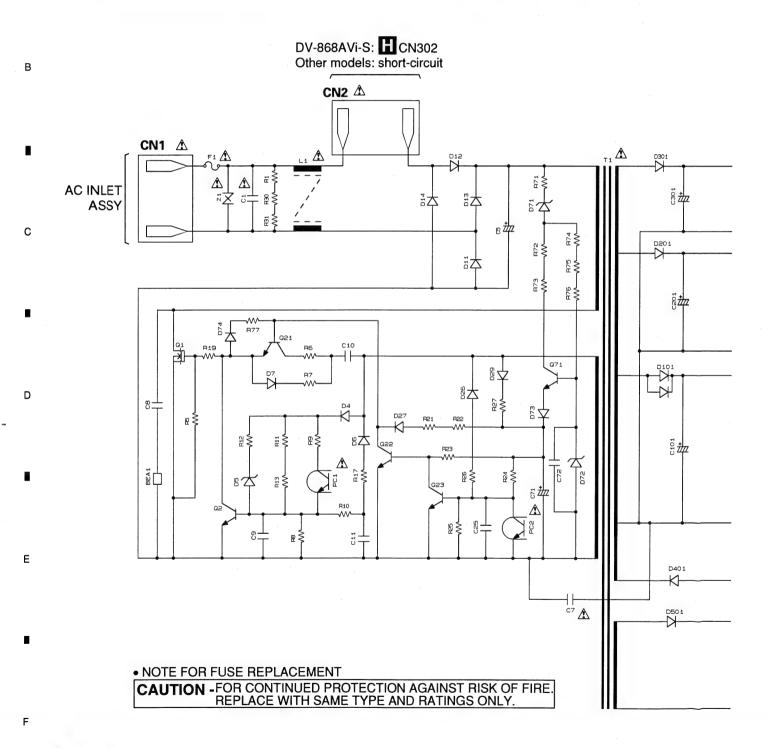
POWER SUPPLY UNIT (VWR1375)

«NOTE OF SPARE PARTS IN POWER SUPPLY (SYPS) UNIT »

- In case of repairing, use the described parts only to prevent an accident.
 Please write the red ✓ mark on the board when the primary section of POWER SUPPLY (SYPS) Unit is repaired.

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· Please take care to keep the space, not touching other parts when replacing the parts.

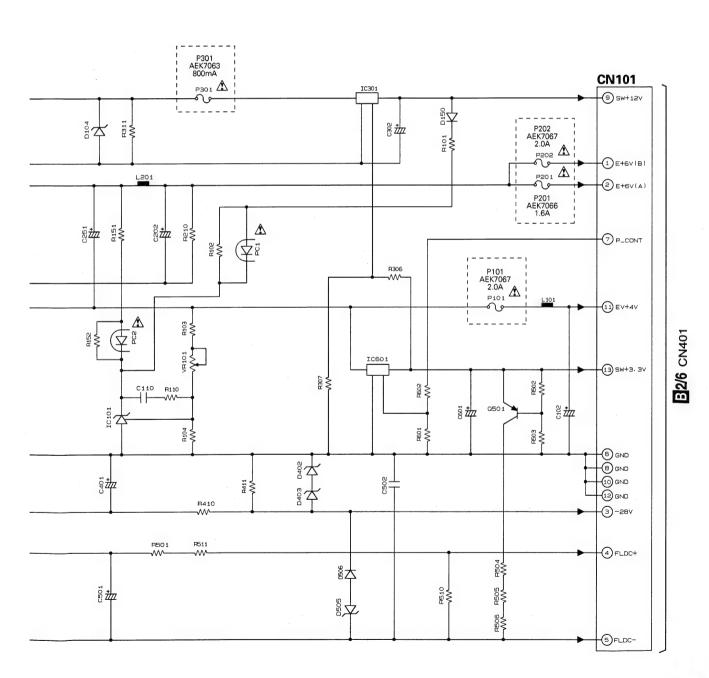


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CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 491.800 MFD, BY LITTELFUSE INC. FOR P301 (AEK7063).

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INC. FOR P201 (AEK7066).

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO. 49101.6 MFD, BY LITTELFUSE INC. FOR P101 and P202 (AEK7067).



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DV-59AVi

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3.14 WAVEFORMS

Note: The encircled numbers denote measuring point in the schematic diagram.

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B DVDM ASSY

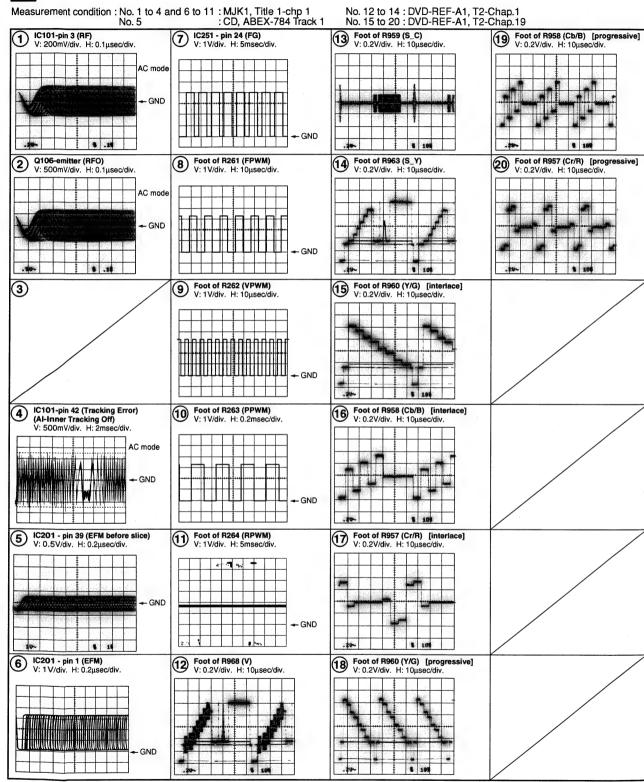
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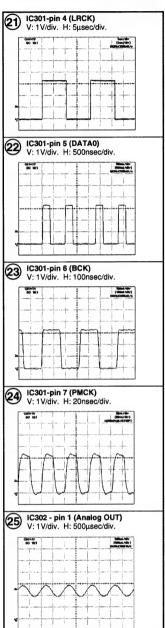
DV-59AVi

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Note: The encircled numbers denote measuring point in the schematic diagram.



Measurement condition: No. 21 to 25 : DVD-REF-A1, T2-Chap.1



DV-59AVi

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1 2 - 3 - 4 -

A

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52 DV-59AVi 3 4

4. PCB CONNECTION DIAGRAM 4.1 LOAB ASSY

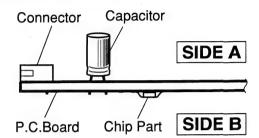
NOTE FOR PCB DIAGRAMS:

5

- Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
000 BCE		Transistor
● <u>⊙ ⊙ ⊙</u> B C E		Transistor with resistor
000 DGS		Field effect transistor
@@@@@@	******	Resistor array
000		3-terminal regulator

- The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



SIDE A

SIDE B

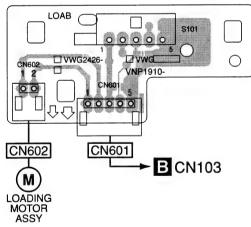
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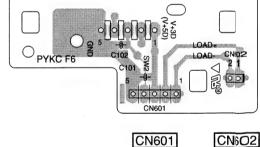
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CN6O2

A

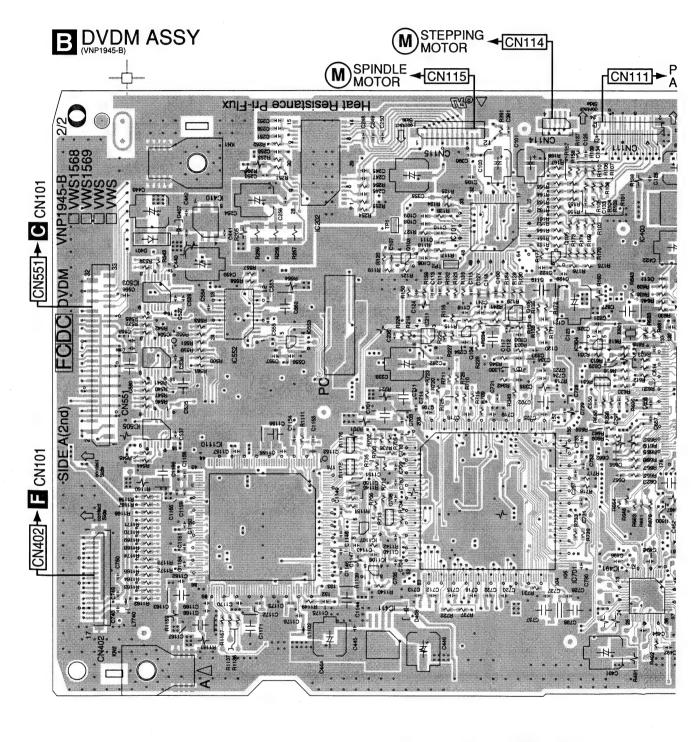
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A

DV-59AV

4.2 DVDM ASSY

SIDE A



				Q10	03	Q104	Q106	Q105	
IC503 IC505	IC504	IC410 IC552 IC1110	IC202 IC553	IC1106 IC1107 IC411	IC211	IC101		IC304 IC701	IC491 IC403

B

DV-59AVi

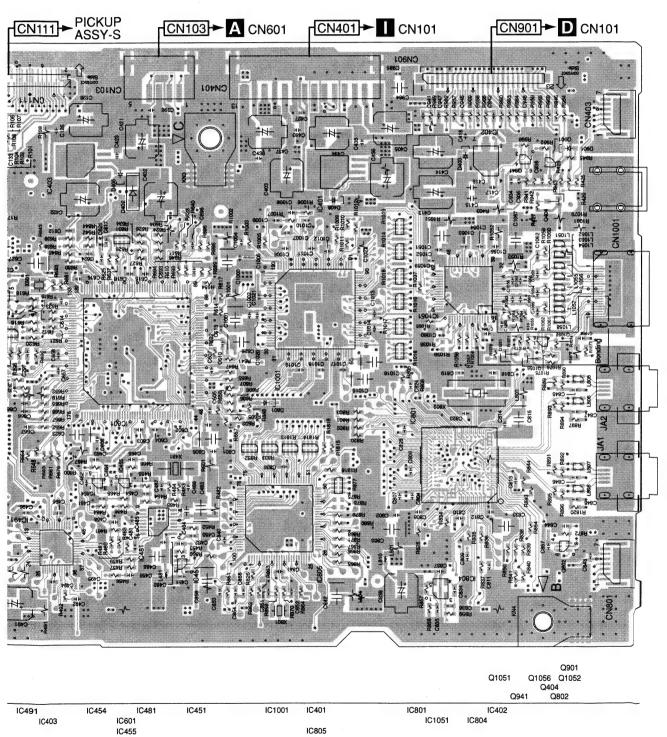
SIDE A

В

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IC402 IC804

IC1051

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IC601

IC455

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IC805

SIDE B

3 9 ä **

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IC902 IC602 IC405 IC903 IC603 10⊂306 IC IC901 IC751 IC1052 IC803 IC806 IC802 IC781 Q904 Q905 Q906 Q907 Q908 Q909 Q801 Q1054 Q1055 Q107 Q601

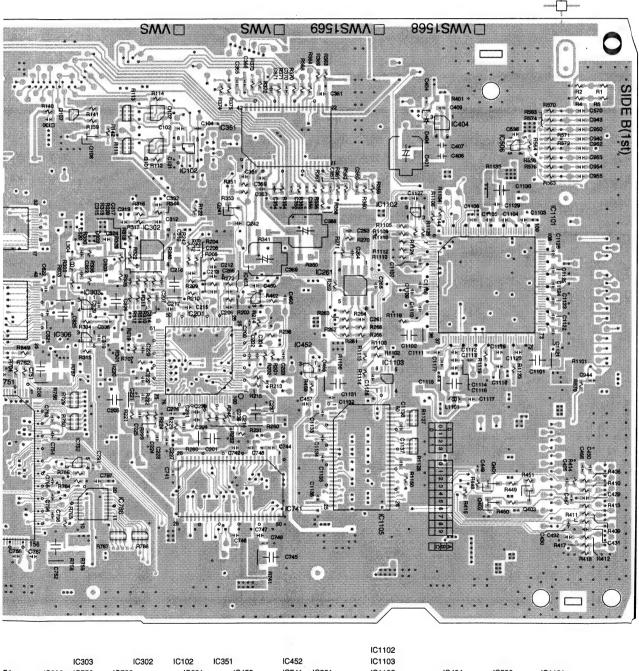
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SIDE B

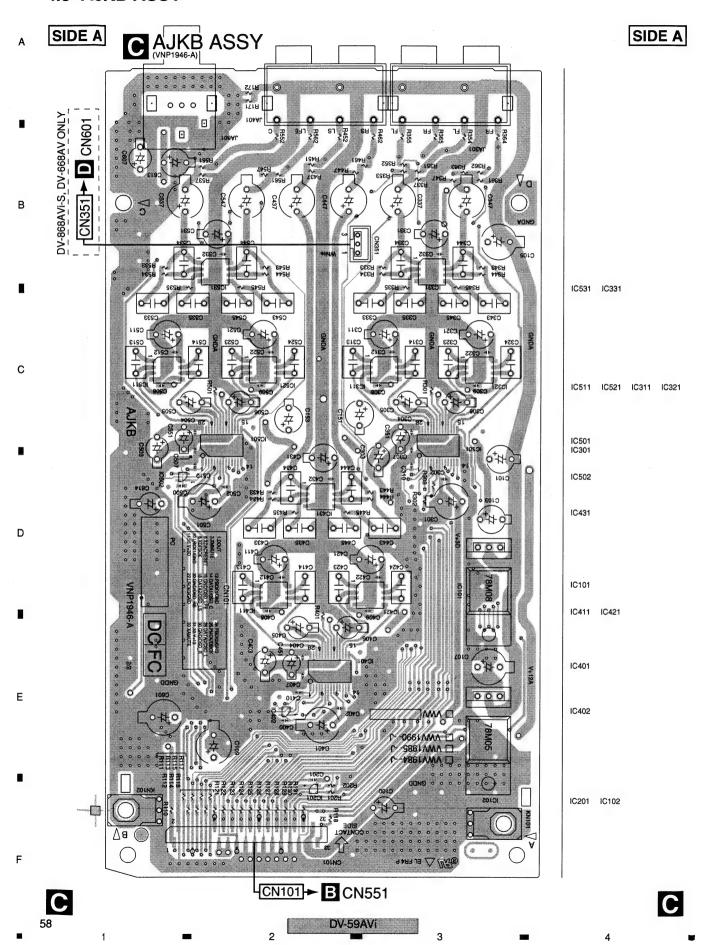
Ε

B DVDM ASSY



IC741 IC1105 IC306 IC752 IC506 IC1101 Q401 Q403 Q107 Q108 Q101 Q102 Q402

DV-59AVi



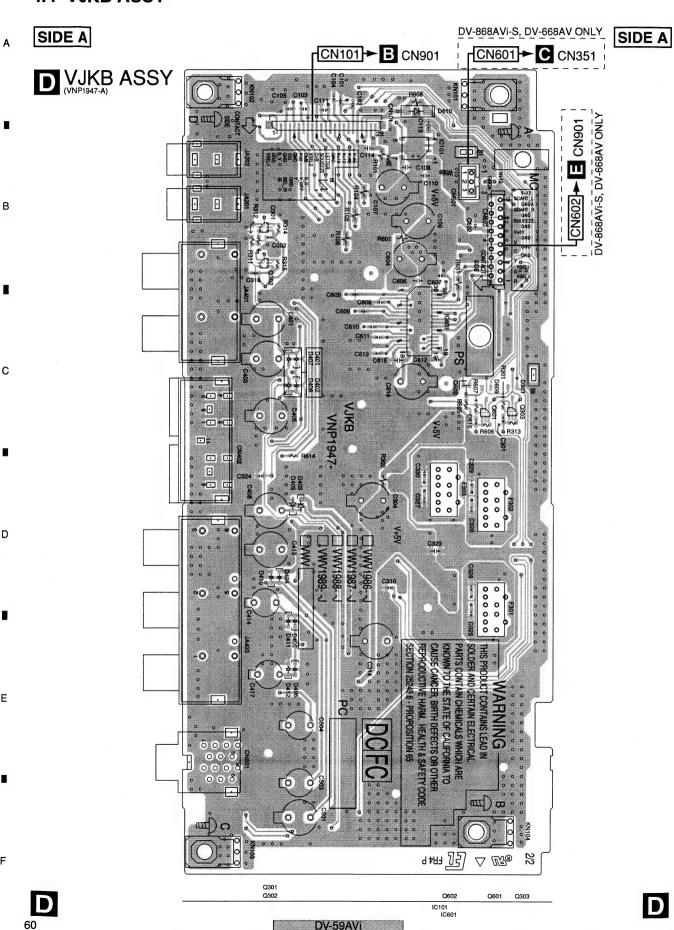
5 SIDE B SIDE B C AJKB ASSY Q451 Q551 Q361 Q352 Q561 Q351 Q461 Q472 Q572 Q371 Q372 Q382 Q381 Q471 Q363 Q353 Q571 04+0 04+0 04+0 04 0110 0110 0110 0.450 0 나 왕 器을 모음 °4±°° IC151 0+ 0 4 to Ö o #‡o° Q6 **Ø**1 IC601 CN101 DV-59AVi 5 8

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4.4 VJKB ASSY



5 SIDE B SIDE B CN601 VJKB ASSY

1003 10302 10302 10302 10302 TOV-59AVI 7

D

В

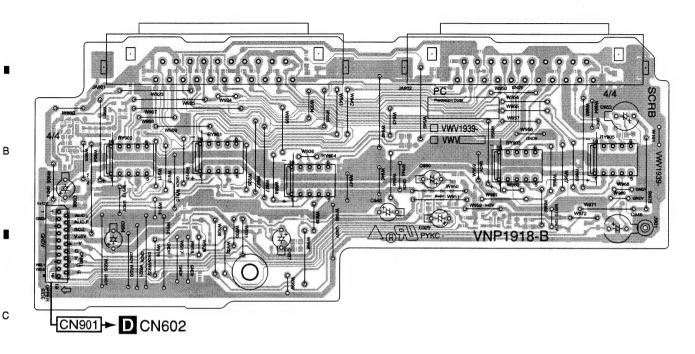
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4.5 SCRB ASSY

SIDE A

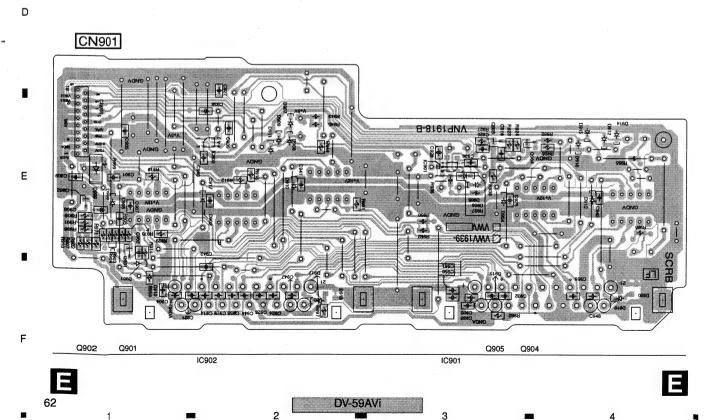




E SCRB ASSY

SIDE B





4.6 MSWB ASSY

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SIDE A

SIDE A

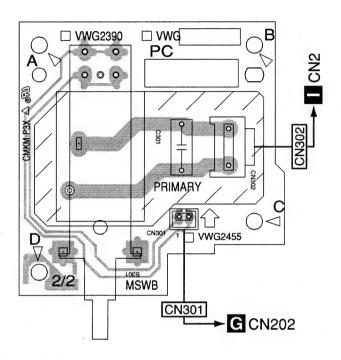
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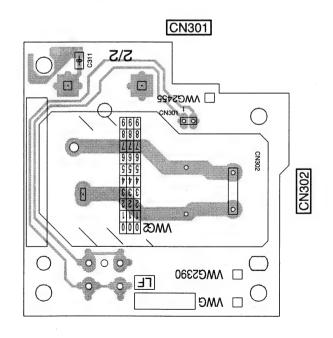
8



MSWB ASSY

SIDE B

SIDE B



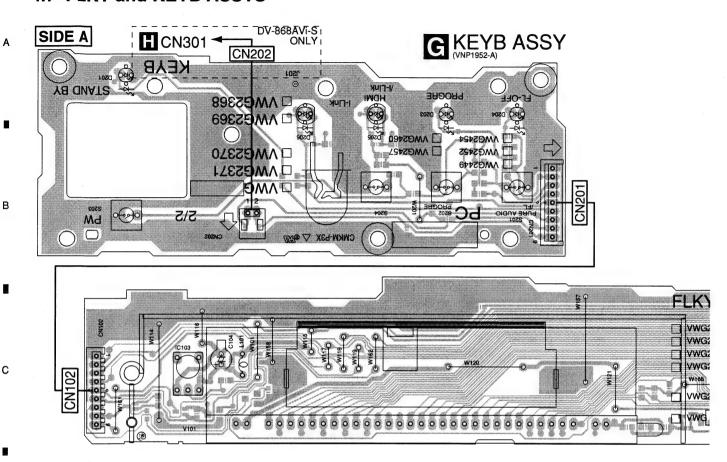
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H

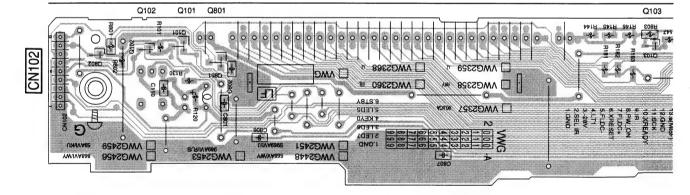
DV-59AVi

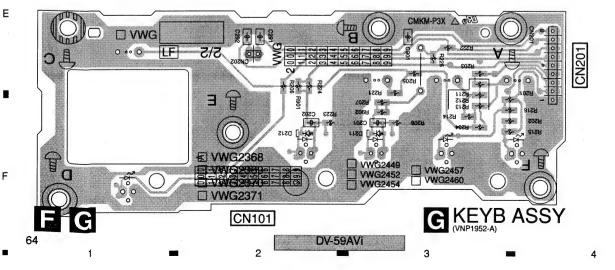
4.7 FLKY and KEYB ASSYS



3

SIDE B



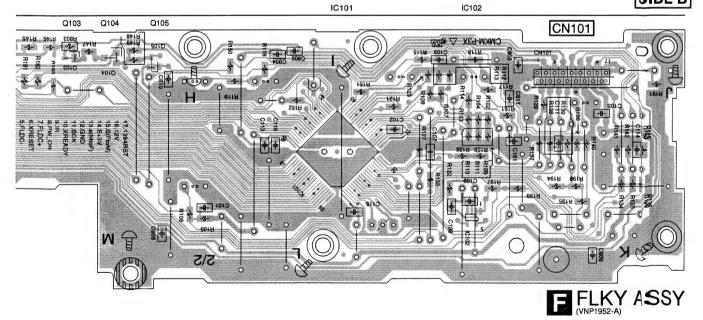


SIDE A

В

8

FLKY ASSY ☐ VWG2448 ☐ VWG2451 □ VWG2453 VWG2357 MUCA ☐ VWG2456 VWG2358 #Y □ VWG2459 VWG2359 4 REV # VWG2360 AL STOP W185 O CMKM-P3X △ 🕬 CN101 B CN402≺ SIDE B



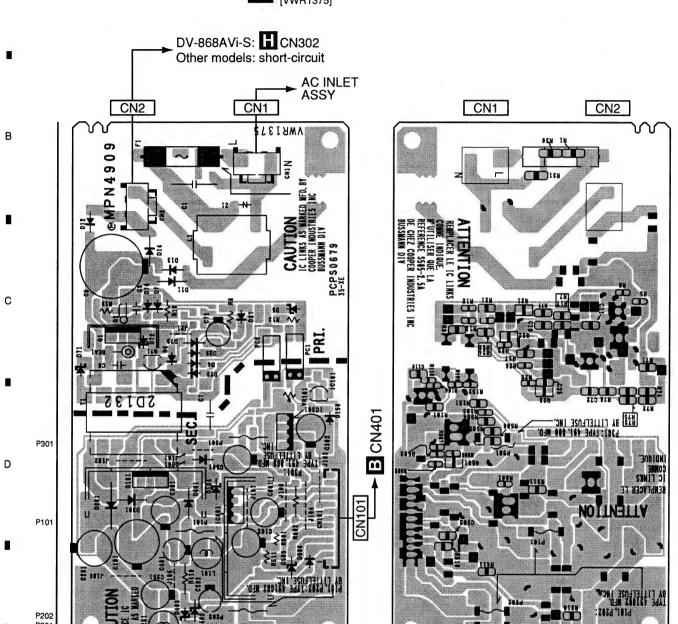
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DV-59AVi

4.8 POWER SUPPLY UNIT

SIDE A POWER SUPPLY UNIT [VWR1375]

SIDE B



DV-59A

3

. 4

PROTETYPE ANTOL, 6 MED, BY LITTELFUSE INC.

5. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC \boxed{5621}F$

Mark LIST	No. Description OF ASSEMBLIES	Part No.	Mark No. Description	Part No.	В
IDV-50	AVi/KUXJ/CA]		A LOAB ASSY [VWG24	1261	
	1LOADING MECHA. ASSY	VWT1207		120]	
NSP	2LOAB ASSY	VWG2426	SWITCHES AND RELAYS	V0K4044	
			S101 REAF SWITCH	VSK1011	
	1DVDM ASSY	VWS1568	OTHERS		
			OTHERS	COD DU K	
	1AJKB ASSY	VWV1984	CN602 CONNCTOR CN601 CONNCTOR	S2B-PH-K S5B-PH-K	
			PRINTED CIRCUIT BOARD	VNP1912	
	1VJKB ASSY	VWV1986	THINTED OFFICER DOTALD	VIII 1012	
NCD	1 FLVB ACCV	VWM2229			_
NSP	1FLKB ASSY 2FLKY ASSY	VWG2459	D - v-v cov navov		С
	2PWSB ASSY	VWG2459	B DVDM ASSY [VWS1	568]	
	2	**************************************	SEMICONDUCTORS		
\triangle	1POWER SUPPLY UNIT	VWR1375	IC903	ADV7314KST	
•			IC261, IC302	BA4510F	
			IC202	BA6664FM	
[DV-86	88AVi-S/WYXJ]		IC803	BU2370FV	
NSP	1LOADING MECHA. ASSY	VWT1207	IC901	CD0040AF	
NSP	2LOAB ASSY	VWG2426		OVERSTOR	
			IC1110	CXD2753R	
	1DVDM ASSY	VWS1568	IC1101	DSPD56367PV150 HY57V16161 O DTC-8	
		\ 0.40 (4.00E	IC1105, IC741, IC902	K4S641632F-TC75	
	1AJKB ASSY	VWV1985	IC781 IC101	LA9704W	D
	4 VIKD ACCV	VWV1988	10101	LA970444	
	1VJKB ASSY	V VV V 1900	IC491	LC4032VAA	
	1SCRB ASSY	VWV1992	IC201	LC78652W	
	130HB A331	V V V 1552	IC351	M56788AFP	
NSP	1FLKB ASSY	VWM2228	IC751	M65776BFP	
1401	2FLKY ASSY	VWG2456	⚠ IC404	MM1385EN	
	2PWSB ASSY	VWG2457	- >//		
	2MSWB ASSY	VWG2455	⚠ IC410	MM1561JF	
			⚠ IC402	MM1565AF	
\triangle	1POWER SUPPLY UNIT	VWR1375	<u> </u>	NJM2880U1: O 5	
			IC804	NJU7093AF	
			IC552	PD0274A	Е
	88AV-S/WYXJ]		104004	DDGGGGD	
	1LOADING MECHA. ASSY	VWT1207	IC1001	PD0280B	
NSP	2LOAB ASSY	VWG2426	IC805	PD5787A	
	. 57.574.4007	104500	IC601 IC701	PD6345A PE5286A	
	1DVDM ASSY	VWS1569	∫ IC403, IC411	PQ025EZ01Z P	
	1AJKB ASSY	VWV1990	2,5 10400, 10411	1 QUEULEU IE	1
	IAJNB ASST	V V V 1990	/ <u>1</u> \ IC401	PQ033EZ017 P	
	1VJKB ASSY	VWV1989	IC481	SM8707HV	
	1	***************************************	IC503-IC505	TC74VHC157FT	
	1SCRB ASSY	VWV1992	IC786	TC74VHC54 FT	
NSP	1FLKB ASSY	VWM2225	IC1106	TC7SH00FU	F
	2FLKY ASSY	VWG2448	IC1102	TC7SH04FU	•
	2PWSB ASSY	VWG2449	IC452, IC506, IC806	TC7SH08FU	
•		\ 0.41D : 0.77	IC451, IC453–IC455	TC7SHU04FJ	
\triangle	1POWER SUPPLY UNIT	VWR1375	IC752	TC7SZ32FU	
		6	DV-59AVi	67	7 _

C404, C426, C619, C632, C844 CKSPYPBIGSCRS		Mark No. Description	Part No.	Mark No. Description	Part No.
A 16/102 TC7WRSFU C212, C213, C227, C231 CXSRYF104K18				C404, C426, C619, C832, C844	CKSRYB103K50
A 16/102 TC7WRSFU C212, C213, C227, C231 CXSRYF104K18		IC303, IC304, IC306	TC7SZU04FU	C108, C111, C114, C115	CKSRYB104K16
IGSSS	Δ				
C1107 TC7WH34FU C37, C382, C740, C820 CKSFYB104KH5 C10107 TC7WH74FU C102, C104, C105, C116, C127 CKSFYB105KH8 C1021 TK15404M C222, C224, C284, C212, C749 CKSFYB105KH8 C1022 CYW2118 C1022 CYW2118 C1022 CKSFYB105KH8 C1022 CKSFYB105KH8 C1022 CYW2118 C1022 CKSFYB105KH8 CKSFYB105KH8 C1022 CKSFYB105KH8 CKSFYB105KH8 C1022 CKSFYB105KH8 C	^				
C1107 TC7WH74FU C102, C104, C105, C116, C127 CKSPY8105K6R9 C820, 0224, C824, C931, C974 CKSPY8105K6R9 C820, 0224, C824, C931, C974 CKSPY8105K6R9 C820, C824, C824, C931, C974 CKSPY8105K6R9 C820, C824, C824, C931, C974 CKSPY8105K6R9 C820, C824, C824, C824, C931, C974 CKSPY8105K6R9 C820, C8					
C2111				0017, 0002, 0740, 0020	OKOITI DIOTKIO
		101107	1071117410	C102 C104 C105 C116 C127	CKSBAB102K8B3
Capit		IC211	TK15404M		
CS02					
CSR19				, ,	
C1055, 0904-0909 2\$A1578A	_				
C401, C402 2SA1602A C1009 CKSFYP834K10 C403 C				C208	CKSHYB222K50
B		Q1055, Q904–Q909	25A15/6A	0000	
Q-403		0.00			
B Q1056 Q141 DTC114EUA C206, C214, C242, C357 CKSRYF9173K50 C404, 0801 DTC114TUA C1112 CKSRYF9173K50 C1069, 0204, 0801 DTC114TUA C836 C366, C214, C242, C357 CKSRYF9173K50 CKSRYF9173K50 C105, 0105, 0105 HN1804FU C1070, C1071, C353, C359 CKSRYF103255 C104, 0105, 0202, 0401 RN4982 C805, C366, C366, C410, C809, C723 CKSRYF103255 C106, 0302, Q401 RN4982 C805, C360, C360, C361, C362, C364 CKSRYF103255 C1060, 0302, Q401 RN4982 C805, C360, C360, C361, C362 CKSRYF104255 C360, C					
Q108, Q241					CKSRYB392K50
C404, C801	В			C206, C214, C242, C357	CKSRYB472K50
C101, C102, C106			DTC114EUA	C1112	CKSRYB473K50
C101, C102, C106		Q404, Q801	DTC114TUA		
□ C103, G105				C836	CKSRYB683K16
□ C1014, C1054, C9061 □ C601, C802, C941 □ C602, C1002, C1004, C1007, C1010-C1014 □ C602, C1004, C1007, C1010-C1014 □ C603, C103, C1032, C1		Q101, Q102, Q106	HN1A01F	C1175	CKSRYF103Z50
□ C0104, C1054, C9051, C9021		Q103, Q105	HN1B04FU	C1070, C1071, C353, C359	CKSRYF104Z25
C601, G802, G941		Q104, Q1054, Q901		C365, C366, C410, C609, C723	
C1072			RN4982		
C1052 UM6KIN C1002-C1004-C1007, C1010-C1014 C58FY-105210 D901 1SS355 C1017-C1022_C1052-C1054-C1014 CKSFKY-105210 D302_D302_D303 KY1970S C1060_C1061_C1066_C					
C1052				C849, C850, C857, C973, C976	CKSRYF104725
D901 18S355 C1017-C1022_C1052-C1058 CKSPYF105210 D302_D303_D303_ KV1970S C1060_C1061_C1066_C10103-C1111 CKSPYF105210 CKSPYF105210 D403_D404_D406_D406_D408_D409_RB501V-40 C1113_C1116_C1119_C112_C1132_C1132_C1132_C1135_C1150_CKSPYF105210_CK		Q1052	UM6K1N		
C D302, D303 KV1870S C1060, C1061, C1066, C1106, C1111 CKSPKF105Z10 C D403, D404, D406, D408, D409 RB501V-40 C1113, C1114-C1119, C112 CKSRYF105Z10 C D403, D404, D406, D408, D409 RB501V-40 C1143, C1146, C1119, C112 C CKSRYF105Z10 C C1143, C1146, C1165 C C1167, C1162, C1164, C1165 C C1167, C1162, C1164, C1165 C C1167, C1162, C1176, C1172, C1173, C1176, CKSRYF105Z10 C C118, C1170, C1172, C1173, C1176, CKSRYF105Z10 C C118, C1122, C125, C126 C CKSRYF105Z10 C C CKSRYF105Z10 C C C C C C C C C C C C C C C C C C C					
C D401, D402 PRB501V-40 C1113, C1116-C1119, C112 CKSRYF105Z10 D403, D404, D406, D406, D408, D409 RB501V-40 C1120-C1129, C1132-C1138, C1140 CKSRYF105Z10 C1143, C1146-C1149, C1152, C1155 CKSRYF105Z10 C1143, C1146-C1149, C1152, C1155 CKSRYF105Z10 CKSRYF105Z10 C1145, C1164, C1165 C1164, C1165 C1168, C1170, C1172, C1173, C1176 CKSRYF105Z10 C1186, C1170, C1172, C1173, C1176 CKSRYF105Z10 C1186, C1170, C1172, C1173, C1176 CKSRYF105Z10 C1186, C1170, C1172, C1173, C1176 CKSRYF105Z10 C118, C122, C125, C125, C125 CCSRYF105Z10 CKSRYF105Z10 C1164, C1125, C126, C125, C125, C125, C125, C126, CCSRYF105Z10 C1102, Hall, L774 CHIP BEADS VTL1084 C230, C232, C236, C253, C256 CS86 CKSRYF105Z10 C258, C258, C259, C256 CS86, C256, C256 CS86, C256, C259, C256 CS86, C256, C256 CS86, C256, C					
D403, D404, D406, D408, D409 BB501V-40 C1129-C1129, C1132-C1138, C1140 CXSRYF105Z10	_				
De01, D801 RB501V-40 C1142, C1142, C1142, C1152, C1155 CKSRYF105Z10 CK	C			01113, 01116-01119, 0112	CNSHTF105Z10
D601, D801 RB501V-40 C1143, C1146-C1149, C1152, C1155 CKSRYF105Z10 C1163, C1164, C1165 CKSRYF105Z10 CKSRYF105Z1		D403, D404, D400, D400, D409	NB301V-40	C1100 C1100 C1100 C1100 C1140	CKCDVE405740
COILS AND FILTERS LCYA1R0J2520 L11901 L1101 L1304 L1051-L1058, L805-L808 L1051-L1058, L805-L808 VTH1047 C129-C131, C220, C226, C224 CKSRYF105210 CCIL (670mH) L1102, L811, L774 CHIP BEADS VTL1084 C230, C232, C236, C253, C256 CKSRYF105210 CAPACITORS CAPACITORS C1107-C1182, C1172, C1173, C1176 CCSRCH100D50 C101 (47/6.3V) C662 C121 C314, C319 C121 C121 CCSRCH100D50 C121 C314, C319 CCSRCH150J50 C451, C455, C459, C462, C464 CKSRYF105210 CCSRCH150J50 C121 C314, C319 CCSRCH150J50 C121 C121 CCSRCH150J50 C121 C314, C319 CCSRCH150J50 C121 C314, C319 CCSRCH150J50 C451, C455, C459, C462, C464 CKSRYF105210 C536-C538, C553, C556, C556 CKSRYF105210 C558, C602-C605, C607, C608 CKSRYF105210 C578-C798, C798, C799, C799 CKSRYF105210 C774-C744, C746, C747 CKSRYF105210 C774-C748, C747, C488 CKSRYF105210 C788-C789, C799, C799 CKSRYF105210		D601 D901	DDE04V 40	· · · · · · · · · · · · · · · · · · ·	
COILS AND FILTERS		D601, D601	ND501V-40		
L1101 L2VA1R0J2520 C118, C122, C125, C126 CKSRYF105Z10 L2VA1R2J2520 CYA1R2J2520 C10670mH) L1051-L1058, L805-L808 VTH1047 C129-C131, C200, C202, C204 CKSRYF105Z10 C215, C217, C221, C222, C226 CKSRYF105Z10 C215, C217, C221, C222, C226 CKSRYF105Z10 C258, C265, C299, C310, C319 CKSRYF105Z10 C258, C265, C299, C310, C319, C314, C319 CKSRYF105Z10 C451, C455, C459, C462, C464 CKSRYF105Z10 C314, C319 CKSRYF105Z10 C58RCH151J50 C586, C659, C462, C464 CKSRYF105Z10 C58RCH151J50 C558, C559, C569, C662, C657, C658 CKSRYF105Z10 C558, C659, C462, C465, C467, C668 CKSRYF105Z10 C558, C659, C469, C467, C668 CKSRYF105Z10 C558, C659, C660, C661, C618 CKSRYF105Z10 C558, C659, C660, C661, C618 CKSRYF105Z10 C58RCH331J50 C704, C706-C710, C712-C716 CKSRYF105Z10 C58RCH391J50 C714-C744, C746, C747 CKSRYF105Z10 C58RCH391J50 C782-C799, C791, C797 CKSRYF105Z10 CKSRYF105Z10 C58RCH391J50 C794-C792, C794-C792, C794-C792, C794 CKSRYF105Z10 C797 C123, C233, C254, C358, C369 CEW101M16 C301, C302, C303, C304, C361, C364, C361, C362, C330 CKSRYB102K50 C333-C937, C949, C958, C969, C994 CKSRYF105		0011 0 4115 511 5550		·	
L304					
L1051-L1058, L805-L808	-	L1101	LCYA1R0J2520	C118, C122, C125, C126	CKSRYF105Z10
COIL (670mH) L1102, L481, L774 CHIP BEADS VTL1084 C230, C232, C226 CKSRYF105Z10 C230, C232, C232, C236, C253, C256 CKSRYF105Z10 C258, C265, C299, C310, C319 CKSRYF105Z10 C258, C329, C390, C393, C409 CKSRYF105Z10 C328, C329, C390, C393, C409 CKSRYF105Z10 C411, C418, C419, C438, C442 CKSRYF105Z10 C314, C319 CCSRCH121J50 C451, C455, C459, C462, C464 CKSRYF105Z10 C314, C319 CCSRCH150J50 C482, C485, C493-C494, C527 CKSRYF105Z10 C314, C319 CCSRCH150J50 C536-C538, C553, C554, C556 CKSRYF105Z10 C314, C319, C324, C391, C392, C941-C948 CCSRCH31J50 C5610, C613, C610, C613-C616, C618 CKSRYF105Z10 C324, C391, C392, C941-C948 CCSRCH331J50 C621, C622, C628, C657, C658 CKSRYF105Z10 C3241, C391, C392, C941-C948 CCSRCH331J50 C704, C706-C710, C712-C716 CKSRYF105Z10 C241 CCSRCH50J50 C718-C722, C724-C732, C735 CKSRYF105Z10 C241 CCSRCH681J50 C704, C706-C710, C712-C716 CKSRYF105Z10 C241 CCSRCH681J50 C704, C706-C710, C712-C716 CKSRYF105Z10 C241 CCSRCH681J50 C741-C744, C746, C747 CKSRYF105Z10 C324, C330, C254, C358, C369 CEVW101M16 C810, C812-C818, C819, C81		L304	LCYA1R2J2520		
L1102, L81, L774 CHIP BEADS VTL1084 C230, C232, C236, C253, C256 CKSRYF105Z10 C258, C265, C299, C310, C319 CKSRYF105Z10 C258, C265, C299, C310, C319 CKSRYF105Z10 C328, C262, C262, C262, C390, C393, C409 CKSRYF105Z10 C328, C262, C262, C262, C329, C390, C393, C409 CKSRYF105Z10 C314, C819 CCSRCH121J50 C451, C455, C459, C462, C464 CKSRYF105Z10 C314, C819 CCSRCH150J50 C362, C482, C482, C483, C493, C493, C459, C554, C556 CKSRYF105Z10 C536, C538, C553, C554, C556 CKSRYF105Z10 C536, C639, C536, C538, C553, C554, C556 CKSRYF105Z10 C536, C639, C		L1051-L1058, L805-L808	VTH1047		CKSRYF105Z10
CAPACITORS C258, C265, C299, C310, C319 CKSRYF105Z10 D C101 (47/6.3V) ACH7174 C662 CCSRCH100D50 C411, C418, C419, C438, C442 CKSRYF105Z10 C121 C314, C819 CCSRCH121J50 C451, C455, C459, C462, C464 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 C100, C134 CCSRCH150J50 C482, C485, C493-C496, C527 CKSRYF105Z10 CKSRYF105Z10 C100, C134 CCSRCH151J50 C536-C538, C553, C554, C556 CKSRYF105Z10 C100, C134, C847, C848 CCSRCH221J50 C558, C602-C605, C607, C608 CKSRYF105Z10 C324, C391, C392, C941-C948 CCSRCH31J50 C621, C622, C628, C657, C658 CKSRYF105Z10 C109 C241 CCSRCH560J50 C704, C706-C710, C712-C716 CKSRYF105Z10 C241 CCSRCH560J50 C718-C722, C724-C732, C735 CKSRYF105Z10 C241 CCSRCH661J50 C718-C722, C724-C732, C735 CKSRYF105Z10 C486, C487 CCSRCH681J50 C753-C765, C769-C780 CKSRYF105Z10 C977 CSSC, C8CR, C8CR, C8CR, C747, C797 CKSRYF105Z10 C782-C789, C791, C797 CKSRYF105Z10 C414, C422, C9		COIL (670mH)		C215, C217, C221, C222, C226	CKSRYF105Z10
CAPACITORS C101 (47/6.3V) C662 C121 C328, C329, C390, C393, C409 CKSRYF105Z10 C662 C121 C328, C329, C390, C393, C409 CKSRYF105Z10 CCSRCH100D50 C411, C418, C419, C438, C442 CKSRYF105Z10 CCSRCH121J50 C451, C455, C459, C462, C464 CKSRYF105Z10 C5324, C391 C100, C134 CCSRCH150J50 C568-C538, C553, C554, C556 CKSRYF105Z10 C568-C538, C553, C554, C556 CKSRYF105Z10 C558, C602-C605, C607, C608 CKSRYF105Z10 C5704, C706-C710, C712-C716 CKSRYF105Z10 CCSRCH630J50 C718-C722, C724-C732, C735 CKSRYF105Z10 C718-C722, C724-C732, C735 CKSRYF105Z10 C771-C744, C746, C747 CKSRYF105Z10 C771-C744, C742, C742, C742, C742, C742, C742 C7407, C408, C416, C484 CKSQYB225K10 C407, C408, C416, C484 CKSQYB225K10 CKSRYF105Z10 CK			VTL1084	C230, C232, C236, C253, C256	CKSRYF105Z10
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C414, C422, C981 CEVW101M16 C810, C812–C814, C816, C823 CKSRYF105Z10 C825, C827, C828, C830, C831 CKSRYF105Z10 C825, C827, C828, C830, C831 CKSRYF105Z10 CKSRYF105Z			CCSRCH821J50		
C414, C422, C981 CEVW101M16 CB10, C812–C814, C816, C823 CKSRYF105Z10 CR25, C827, C828, C830, C831 CKSRYF105Z10		C123, C233, C254, C358, C369	CEVW101M16		CKSRYF105Z10
C825, C827, C828, C830, C831 CKSRYF105Z10 C103 CEVW220M16 C443, C838 CEVW221M4 C845, C846, C903, C905–C910 CKSRYF105Z10 C1059, C1068, C1069, C1168, C216 C313, C351, C412, C427, C428 CKSRYB102K50 C933–C937, C949, C958–C963 CKSRYF105Z10 C528, C557, C559, C606, C617 CKSRYB102K50 C965, C968, C969, C974 CKSRYF105Z10 C703, C733, C748, C750, C822 CKSRYB102K50 C968, C403, C405 (47/16V) VCH1210 C967, C975, C985 CKSRYB103K50 C1106, C1114, C113, C220, C225 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243 C234, C261, C320–C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243			CEVW101M16		CKSRYF105Z10
■ C443, C838		, , , , , , , , , , , , , , , , , , , ,		C825, C827, C828, C830, C831	CKSRYF105Z10
■ C443, C838		C103	CEVW220M16		
C407, C408, C416, C484				C837, C839-C841, C843	CKSRYF105Z10
C1059, C1068, C1069, C1168, C216 C313, C351, C412, C427, C428 CKSRYB102K50 C528, C557, C559, C606, C617 C703, C733, C748, C750, C822 CKSRYB102K50 CSRYB102K50 C982, C983 C703, C733, C748, C750, C822 CKSRYB102K50 C982, C983 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CF82, C983 CF83, C983 CKSRYF105Z10 CKSRYF105Z10 CF83, C983 CF83, C	-			C845, C846, C903, C905-C910	CKSRYF105Z10
C313, C351, C412, C427, C428 CKSRYB102K50 C933—C937, C949, C958—C963 CKSRYF105Z10 CHSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CHSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CHSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CHSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CHSRYF105Z10				C912-C918, C920-C929, C931	CKSRYF105Z10
C965, C968, C969, C974 CKSRYF105Z10 C528, C557, C559, C606, C617 CKSRYB102K50 C703, C733, C748, C750, C822 CKSRYB102K50 C967, C975, C985 CKSRYB102K50 C368, C403, C405 (47/16V) VCH1210 C110, C1114, C113, C220, C225 CKSRYB103K50 C1001, C1003, C1051, C1067, C1101 VCH1243 C234, C261, C320—C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243					
C528, C557, C559, C606, C617 CKSRYB102K50 C982, C983 CKSRYF105Z10 C703, C733, C748, C750, C822 CKSRYB102K50 C368, C403, C405 (47/16V) VCH1210 C110, C1114, C113, C220, C225 CKSRYB103K50 C1001, C1003, C1051, C1067, C1101 C234, C261, C320—C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243		0313, 0331, 0412, 0427, 0428	UNSD118102N50		
C703, C733, C748, C750, C822 CKSRYB102K50 C982, C983 CKSRYF105Z10 C967, C975, C985 CKSRYB102K50 C368, C403, C405 (47/16V) VCH1210 C110, C1114, C113, C220, C225 CKSRYB103K50 C1001, C1003, C1051, C1067, C1101 VCH1243 C234, C261, C320—C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243		CE29 0557 0550 0000 0017	OKCOND400KE0	,	
F C967, C975, C985 CKSRYB102K50 C368, C403, C405 (47/16V) VCH1210 C110, C1114, C113, C220, C225 CKSRYB103K50 C110, C1003, C1051, C1067, C1101 VCH1243 C234, C261, C320—C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243				C982, C983	CKSRYF105710
C110, C1114, C113, C220, C225 CKSRYB103K50 C1001, C1003, C1051, C1067, C1101 VCH1243 C234, C261, C320-C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243	F			· · · · · · · · · · · · · · · · · · ·	
C234, C261, C320–C322, C330 CKSRYB103K50 C1115, C1130, C1131, C1156, C1163 VCH1243	•	· · · · · · · · · · · · · · · · · · ·			
0207, 0201, 0320-0322, 0330					
C1100, C1101, C1101, C203, C237 VCH1243		C234, C261, C320-C322, C330	CKSRYB103K50		
				01100, 01107, 0119, 0209, 0237	VOI 1243

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Mark No.	Description	Part No.		Mark No.	Desc	ription	Part No.	
	33, C488, C535, C552	VCH1243	-		CONNECT	_	VKN1464	
,	01, C623, C625	VCH1243 VCH1243		J. 1111 241	551414E01			
)2, C711, C737–C739	VCH1243		CN551 33F	CONNECT	OR	VKN1519	Α
•	51, C752, C781, C803	VCH1243			394-TERMIN		VKN1800	^
	7, C826, C829, C833	VCH1243		,	OMI CONNE		VKN1810	
Co 15, Co 1	7, 0020, 0029, 0033	VOI11240		1002 SCR		31311	VNE1948	
C042 C05	56, C904, C911, C919	VCH1243		KN1-KN4	Livi		VNF1109	
C930, C93	32, C939, C951, C964	VCH1243			METAL FITTI	NG	VIII 1100	
(100/4)		VOLITOAA		Vent /16 E	A ALLI-A)		VSS1160	
	01 (68u/6.3V)	VCH1244		X601 (16.5)			VSS1172	
C421, C43	34, C437, C439, C444	VCH1246		X481 (27M X801 (6.14)			VSS1172 VSS1179	
0440 040	14 (450/4)/)	VCH1246		X001 (0.14)	IVII 12)		V001173	
	91 (150/4V) 91, C413, C436 (100/6.3V							
C126, C40	71, C413, C436 (100/6.3V)) VON1232						
DECICTOR	00			5 DVDN	ASSY	IVWS15	391	В
RESISTOF		D. D. C.				_		Ь
	1814, R821–R824	RAB4C0R0J	:	SEMICOND	OCTORS		ADV/7040VCT	
R832, R83	-	RAB4C0R0J		IC903			ADV7310KST	
R729, R73		RAB4C101J		IC261, IC30	2		BA4510F	
	l 128, R631, R713, R804	RAB4C103J		IC202			BA6664FM	
R878		RAB4C103J		IC901			CD0040AF	
				IC1110			CXD2753R	
	018, R111, R926	RAB4C220J		101101			DODD50007D\450	_
R931, R93		RAB4C220J		IC1101	10000		DSPD56367PV150	
•	175, R1176, R786, R787	RAB4C470J		IC1105, IC7	41, IC902		HY57V161610DTC-8	
	39, R976, R977	RAB4C470J		IC781			K4S641632F-TC75	
R1001, R1	1002, R1051-R1053, R105	5 RS1/10S0R0J		IC101			LA9704W	
				IC201			LC78652W	•
	080, R1101, R1126, R113						1450700450	С
	1159-R1161, R138, R160	RS1/10S0R0J		IC351			M56788AFP	
	06, R220, R240, R260	RS1/10S0R0J		IC751			M65776BFP	
	01, R350, R401, R403	RS1/10S0R0J		⚠ IC404			MM1385EN	
R482, R49	91, R554, R600, R601	RS1/10S0R0J		⚠ IC410			MM1561JF	
				⚠ IC402			MM1565AF	
,	08, R701, R718, R721	RS1/10S0R0J		A			111110000111.05	
	41, R756–R760, R763	RS1/10S0R0J		⚠ IC405			NJM2880U1-05	
	49, R8801-R8804, R907	RS1/10S0R0J		IC601			PD6345A	
R916, R91	19, R921, R923, R927	RS1/10S0R0J		IC701			PE5286A	
R341		RS1/10S101J		🛕 IC403, IC41	1		PQ025EZ01ZP	
				⚠ IC401			PQ033EZ01ZP	
	69, R373, R375	RS1/16S1003F						_
R123		RS1/16S1202F		IC1051			SII9190CTG64	D
R358, R36	61	RS1/16S1503F		IC481	_		SM8707HV	
	902, R9906	RS1/16S2700F		IC503-IC50)5		TC74VHC157FT	
R947, R95	51	RS1/16S2701F		IC786			TC74VHC541 FT	
				IC1106			TC7SH00FU	
R970, R98		RS1/16S3000F						
R948, R95	53	RS1/16S3300F		IC1102	_		TC7SH04FU	
R132		RS1/16S4702F		IC452, IC50			TC7SH08FU	_
R1820, R8	397	RS1/16S5101F		IC451, IC45	3-IC455		TC7SHU04FU	
R889-R89	96	RS1/16S56R0D		IC752	4 10		TC7SZ32FU	
				IC303, IC30	14, IC306		TC7SZU04FU	
R816		RS1/16S6341D					70-110-711	
R357, R36	62, R363, R368, R372	RS1/16S6802F		IC102			TC7W53FU	_
R374		RS1/16S6802F		IC553			TC7WH157FU	E
R257 (R=	=1.0 ,W=1/4)	VCN1127		IC1103			TC7WH34FU	
R258, R25	59 (R=2.2 ,W=1/4)	VCN1128		IC1107			TC7WH74FU	
				IC211			TK15404M	
Other Res	sistors	RS1/16S###J						
				IC603			VYW2163	
<u>OTHERS</u>				Q1055, Q90			2SA1576A	
X802 (24.	.5760MHz)	ASS7025		Q401, Q402	2		2SA1602A	_
	N801 07P CONNECTOR	RKN1048		Q403			2SC4081	
,	PH CONNECTER(SMT)	S13B-PH-SM3		Q1056			DTA124EUA	
	CONNECTOR	S5B-PH-SM3						
	EXIBLE CABLE	VDA1681		Q108, Q241	I		DTC114EUA	
				Q404			DTC114TUA	
CN114 4	P CONNECTOR	VKN1409		Q101, Q102	2, Q106		HN1A01F	F
	2P CONNECTOR	VKN1416		Q103, Q105	5		HN1B04FU	
	7P CONNECTOR	VKN1421		Q104, Q105	54, Q901		HN1C01FU	
	3P CONNECTOR	VKN1427						

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A Q1052 UM6K1N C112, C1129, C1129, C1132-C1138 CKSRN D901 1SS355 C1169, C1175, C1162, C11164, C1164, C1164, C1164, C1164, C1164, C1164, C1164, C1165, D302, D303 KV1870S C1169, C1170, C1172, C1173, C1176 CKSRN D403, D404, D406, D408, D409 RB501V-40 C129-C131, C200, C202, C204 CKSRN D601 RB501V-40 C215, C217, C221, C222, C226 CKSRN C230, C232, C236, C253, C256 CKSRN C246, C236, C256,	<u>art No.</u>
A O1052	SRYF105Z10
A C1052 UM6K1N C1140, C1143, C11446, C11449, C1152 CKSRN D302, D303 KV1870S C1155, C1157, C1162, C1164, C1165, CKSRN C1169, C1170, C1173, C1176 CKSRN C1169, C1170, D402, D403, D404, D406, D408, D409 RB501V-40 C129-C131, C200, C202, C204 CKSRN D601 RB501V-40 C215, C217, C221, C222, C226 CKSRN C230, C232, C236, C253, C256, C258, C	SRYF105Z10
D901	SRYF105Z10
D302, D303 KV1870S C1169, C1172, C1173, C1176 CKSPN D401, D402 RB051L-40 C118, C122, C125, C126 CKSPN D403, D404, D406, D408, D409 RB501V-40 C129-C131, C200, C202, C204 CKSPN C230, C232, C236, C255 CKSPN C230, C232, C236, C253, C256 CKSPN C230, C232, C236, C259, C390, C393, C409 CKSPN C230, C232, C236, C259, C390, C393, C409 CKSPN C230, C232, C236, C232, C390, C393, C409 CKSPN C230, C232, C236, C232, C393, C393, C499 CKSPN C241, C411, C418, C411, C418, C419, C438, C442 CKSPN C451, C455, C459, C462, C464 CKSPN C452, C464, C451, C455, C459, C462, C464 CKSPN C462, C464, C451, C455, C459, C462, C464 CKSPN C462, C464, C451, C455, C459, C462, C464 CKSPN C462, C464, C451, C452, C463, C657, C658, C652, C658, C652	SRYF105Z10
D403, D404, D406, D408, D409	SRYF105Z10
D403, D404, D406, D408, D409	SRYF105Z10
COILS AND FILTERS L1101 L304 L1051-L1058 COIL (670mH) L1102, L481, L774 CHIP BEADS CAPACITORS C101 (47/6.3V) C121 (C221, C222, C228 CKSPN CASP, C230, C236, C253, C256 CKSPN CASP, C236, C259, C310, C319 CKSPN C120 (47/6.3V) C121 (C27A1R0.)2520 C122 (C27A1R0.)2520 C123 (C27A1R0.)2520 C124 (C27A1R0.)2520 C125 (C37A1R0.)2520 C126 (C37A1R0.)2520 C127 (C37A1R0.)2520 C128 (C37A1R0.)2520 C129 (C37A1R0.)2520	SRYF105Z10
COILS AND FILTERS L1101 L304 L1051-L1058 COIL (670mH) L11102 L11	SRYF105Z10
COILS AND FILTERS L1101 L304 LCYA1R0J2520 LCYA1R2J2520 C328, C329, C390, C393, C409 CKSRN L1051-L1058 COIL (670mH) VTH1047 C411, C418, C419, C438, C442 CKSRN L1102, L481, L774 CHIP BEADS VTL1084 C482, C485, C527, C536-C538 CKSRN C556, C558, C602-C605 CKSRN C482, C485, C527, C536-C538 CKSRN C556, C558, C602-C605 CKSRN C662 CCSRCH120J50 C618, C621, C622, C628 CKSRN C100, C134 CCSRCH150J50 C712-C716, C718-C722 CKSRN C100, C134 CCSRCH151J50 C712-C716, C718-C722 CKSRN C100, C133 C324, C391, C392, C941-C948 CCSRCH391J50 C746, C747, C753-C765 CKSRN C486, C487 CCSRCH580J50 C797, C303, C905-C910 CKSRN C421, C436, C487 CCSRCH681J50 C977 CCSRCH681J50 C977 C123, C128, C233, C254 CEVW101M16 C103 C421, C434, C437, C439 CEVW221M4 C443, C444, C446 CEVW221M4 C1059, C1068, C1168, C216 CKSRYB102K50 C931, C752, C791, C904, C911 CVSRY C741, C434, C437, C439 CEVW221M4 C4407, C408, C416, C484 CKSRYB102K50 C931, C931, C931, C951, C964 C1059, C1068, C1168, C216 CKSRYB102K50 C931, C931, C951, C964 CYCH12 CY	SRYF105Z10
L1101 L304 L1051-L1058 COIL (670mH) L1102, L481, L774 CHIP BEADS CAPACITORS C101 (47/6.3V) C662 C121 C104 C100, C134 C120, C381 C2328, C399, C390, C393, C409 CKSRY C314 C100, C134 C120, C382, C382, C462, C464 CKSRY C556, C558, C602-C605 CKSRY C687 C100, C134 C100, C134 C100, C134 C120, C133 C224, C391, C392, C941-C948 C120 C2SRCH50050 C241 C486, C487 C2SRCH50050 C241 C486, C487 C2SRCH50050 C241 C486, C487 C2SRCH50050 C679, C608, C610, C613-C616 CKSRY C712-C716, C718-C722 CKSRY C724-C732, C735, C741-C744 CKSRY C724-C732, C735, C741-C744 CKSRY C284 C486, C487 CCSRCH50050 C797, C903, C905-C910 CKSRY C107, C360 C977 C123, C128, C233, C254 C977 C123, C128, C233, C254 C241, C434, C437, C439 C241, C442, C436, C981 CEVW101M16 C413, C414, C422, C436, C981 CEVW221M4 C407, C408, C416, C484 CKSRYB102K50 CNSRY C751, C752, C781, C904, C991, C904, C911 C407, C408, C416, C484 CKSRYB102K50 CNSRY C751, C752, C781, C904, C991, C994, C995, C996, C994 CKSRY C1059, C1068, C1069, C1168, C216 CKSRYB102K50 CNSRYB102K50 CNSRYB	SRYF105Z10
L304 L1051-L1058 COIL (670mH) VTH1047 C411, C418, C419, C438, C442 CKSRY L1102, L481, L774 CHIP BEADS VTL1084 C451, C455, C459, C462, C464 L1102, L481, L774 CHIP BEADS VTL1084 C451, C455, C459, C462, C464 CKSRY C482, C485, C527, C536–C538 CKSRY C482, C485, C527, C536–C605 CKSRY C482, C485, C527, C536–C605 CKSRY C556, C556, C602–C605 CKSRY C662 C121 CCSRCH100D50 C607, C608, C610, C613–C616 CKSRY C314 CCSRCH150J50 C618, C621, C622, C628 CKSRY C100, C134 CCSRCH150J50 C657, C658, C704, C706–C710 CKSRY C100, C134 CCSRCH151J50 C712–C716, C718–C722 CKSRY C120, C133 CCSRCH221J50 C724–C732, C735, C741–C744 CKSRY C120, C133 CCSRCH331J50 C746, C747, C753–C765 CKSRY C109 C241 CCSRCH391J50 C766–C780, C782–C789, C791 CKSRY C486, C487 CCSRCH660J50 C797, C903, C995–C991 CKSRY C486, C487 CCSRCH660J50 C797, C903, C995–C991 CKSRY C486, C487 CCSRCH681J50 C9912–0918, C920–0929, C931 CKSRY C486, C487 CCSRCH681J50 C993–C937, C949, C958–C963 CKSRY C123, C128, C233, C254 CEWW101M16 C982, C983 C368, C369, C401, C403, C405 CEWW101M16 C1051, C1067, C1101, C1115 CKSRY C443, C444, C422, C436, C981 CEWW101M16 C1051, C1067, C1101, C1115 CWH12 C103 C2421, C444, C448 CEWW21M4 C701, C702, C711, C745 CWH12 C103 C421, C434, C439 CEWW221M4 C701, C702, C711, C745 CWH12 C103 C421, C444, C446 CEWW221M4 C701, C702, C711, C745 CWH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C903, C995, C996, C994 CYH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C903, C995, C996, C991, C904, C904, C904, C904, C911 CYM12 C1004VY	
L1051-L1058 COIL (670mH)	SRYF105Z10
B CAPACITORS C101 (47/6.3V) C662 C121 CCSRCH100D50 C100, C134 CCSRCH150J50 C120, C133 C324, C391, C392, C941—C948 C2SRCH331J50 C241 CCSRCH221J50 C2SRCH50J50 C241 CCSRCH50J50 C25RCH50J50 C241 CCSRCH50J50 C25RCH50J50 C25RCH50J50 C25RCH50J50 C25RCH50J50 C26RCH50J50 C26RCH50J50 C279, C903, C905—C910 CKSRY C109 C241 CCSRCH50J50 C25RCH560J50 C26RCH50J50 C279, C903, C905—C910 CKSRY C120, C133 CCSRCH680J50 C977 CCSRCH681J50 C26RCH681J50 C279, C903, C905—C910 CKSRY C123, C128, C233, C254 CEWW101M16 C368, C369, C401, C403, C405 CEWW101M16 C368, C369, C401, C403, C405 CEWW101M16 C368, C369, C401, C403, C405 C421, C434, C437, C439 CEWW20M16 C421, C434, C437, C439 CEWW20M16 C421, C434, C437, C439 CAPACITORS CEWW20M16 C421, C434, C437, C439 CEWW21M4 C407, C408, C416, C484 CKSRYB102K50 C901 C901 C901 C901 C901 C901 C901 C90	SRYF105Z10
CAPACITORS C101 (47/6.3V) C662 C102 C103 C104 C105 C101 C105 C104 C105 C105 C105 C105 C106 C105 C106 C106 C106 C107 C106 C107 C106 C107 C108 C108 C109 C	SRYF105Z10
CAPACITORS C556, C558, C602-C605 CKSRY C101 (47/6.3V) ACH7174 C6662 CCSRCH100D50 C607, C608, C610, C613-C616 CKSRY C121 CSRCH150J50 C618, C621, C622, C628 CKSRY CKSRY CKSRY C314 CCSRCH150J50 C657, C658, C704, C706-C710 CKSRY C100, C134 CCSRCH151J50 C712-C716, C718-C722 CKSRY C120, C133 CCSRCH221J50 C724-C732, C735, C741-C744 CKSRY C109 C324, C391, C392, C941-C948 CCSRCH331J50 C746, C747, C753-C765 CKSRY C109 CCSRCH560J50 C769-C780, C782-C789, C791 CKSRY C241 CCSRCH560J50 C797, C903, C905-C910 CKSRY C486, C487 CCSRCH581J50 C912-C918, C920-C929, C931 CKSRY C977 C123, C128, C233, C254 CEVW101M16 C982, C983 CKSRY C368, C369, C401, C403, C405 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C421, C434, C437, C439 CEVW221M4 C535, C560, C601, C623, C625 VCH12 C103 CEVW221M4 C701, C702, C711, C745	SRYF105Z10
C101 (47/6,3V) ACH7174 C662 CCSRCH100D50 C618, C610, C613—C616 CKSRY C314 CCSRCH150J50 C657, C658, C704, C706—C710 CKSRY C100, C134 CCSRCH151J50 C712—C716, C718—C722 CKSRY C100, C134 CCSRCH151J50 C724—C732, C735, C741—C744 CKSRY C120, C133 CCSRCH221J50 C724—C732, C735, C741—C744 CKSRY C120, C133 CCSRCH231J50 C769—C780, C782—C789, C791 CKSRY C109 CCSRCH331J50 C769—C780, C782—C789, C791 CKSRY C410 CCSRCH560J50 C797, C903, C905—C910 CKSRY C441 CCSRCH560J50 C797, C903, C905—C910 CKSRY C486, C487 CCSRCH681J50 C912—C918, C920—C929, C931 CKSRY C977 CCSRCH5R0C50 C933—C937, C949, C958—C963 CKSRY C107, C360 CCSRCH681J50 C965, C968, C969, C974 CKSRY C123, C128, C233, C254 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C368, C369, C401, C403, C405 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C413, C414, C422, C436, C981 CEVW101M16 C1130, C1131, C1163, C1166, C1167 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C751, C752, C781, C904, C911 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C201 (2004V)	SRYF105Z10
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C121 CCSRCH121J50 C618, C621, C622, C628 CKSRY C314 CCSRCH150J50 C657, C658, C704, C706—C710 CKSRY C100, C134 CCSRCH151J50 C712—C716, C718—C722 CKSRY C120, C133 CCSRCH21J50 C724—C732, C735, C741—C744 CKSRY C120, C133 CCSRCH331J50 C746, C747, C753—C765 CKSRY C109 C241 CCSRCH391J50 C769—C780, C782—C789, C791 CKSRY C486, C487 CCSRCH560J50 C797, C903, C905—C910 CKSRY C486, C487 CCSRCH5R0C50 C912—C918, C920—C929, C931 CKSRY C107, C360 CCSRCH681J50 C933—C937, C949, C958—C963 CKSRY C123, C128, C233, C254 CEVW101M16 C982, C983 CKSRY C136, C368, C369, C401, C403, C405 CEVW101M16 C982, C983 CKSRY C413, C414, C422, C436, C981 CEVW101M16 C1130, C1131, C1163, C1166, C1167 C412, C424, C434, C437, C439 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C932, C939, C951, C964 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C321, C621, C427, C428 CKSRYB102K50 C318, C351, C412, C427, C428 CKSRYB102K50 C318, C361, C622, C628 CKSRYB102K50 C617, C621, C622, C628 CKSRYB102K50 C617, C622, C628 CKSRYB102K50 C618, C627, C628, C704, C70	SRYF105Z10
C121 C2314 CCSRCH150J50 C657, C658, C704, C706–C710 CKSRY C100, C134 CCSRCH151J50 C712–C716, C718–C722 CKSRY C724–C732, C735, C741–C744 CKSRY C734, C391, C392, C941–C948 CCSRCH331J50 C769–C780, C782–C789, C791 CKSRY C769–C780, C782–C789, C791 CKSRY C797, C903, C905–C910 CKSRY C7933–C937, C949, C958–C963 CKSRY C797, C360 C977 CCSRCH821J50 C933–C937, C949, C958–C963 CKSRY C797, C360 CSRCH821J50 C965, C968, C969, C974 CKSRY C797, C368, C369, C401, C403, C405 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C403, C414, C422, C436, C981 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C103 C413, C414, C422, C436, C981 CEVW20M16 C103, C421, C434, C437, C439 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C932, C939, C951, C964 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C1069, C1069, C1069, C1069	SRYF105Z10
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C120, C133	SRYF105Z10
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C109	SRYF105Z10
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C CCSRCHSRIOCSU C933_C937, C949, C958_C963 CKSRY C107, C360 CCSRCH681J50 C977 CCSRCH821J50 C965, C968, C969, C974 CKSRY C123, C128, C233, C254 CEVW101M16 C1051, C1067, C1101, C1115 VCH12 C368, C369, C401, C403, C405 CEVW101M16 C1130, C1131, C1163, C1166, C1167 VCH12 C413, C414, C422, C436, C981 CEVW101M16 C1130, C1131, C1163, C1166, C1167 VCH12 C103 CEVW220M16 C103, C421, C434, C437, C439 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C751, C752, C781, C904, C911 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12	SRYF105Z10
C107, C360	SRYF105Z10
C977 C123, C128, C233, C254 CEVW101M16 C368, C369, C401, C403, C405 C413, C414, C422, C436, C981 C103 C421, C434, C437, C439 C443, C444, C446 C443, C444, C446 C407, C408, C416, C484 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C982, C983 CKSRY CH12 C1051, C1067, C1101, C1115 C1130, C1131, C1163, C1166, C1167 C119, C205, C326, C483, C488 C103 C535, C560, C601, C623, C625 VCH12 C701, C702, C711, C745 VCH12 C701, C702, C711, C702 C701, C702, C711, C70	SRYF105Z10
C123, C128, C233, C254 CEVW101M16 C982, C983 CKSRY VCH12 C368, C369, C401, C403, C405 CEVW101M16 C1130, C1131, C1163, C1166, C1167 C119, C205, C326, C483, C488 VCH12 C103 CEVW220M16 C535, C560, C601, C623, C625 VCH12 C413, C414, C427, C439 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C751, C752, C781, C904, C911 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C313, C351, C412, C427, C428 CKSRYB102K50	DVE105710
C123, C126, C233, C234 C2368, C369, C401, C403, C405 C413, C414, C422, C436, C981 C103 C421, C434, C437, C439 C443, C444, C446 C407, C408, C416, C484 C1059, C1068, C1069, C1168, C216 C313, C351, C412, C427, C428 C28W101M16 C1051, C1067, C1101, C1115 VCH12	SRYF105Z10
C308, C359, C401, C403, C405 C413, C414, C422, C436, C981 CEVW101M16 C1130, C1131, C1163, C1166, C1167 C119, C205, C326, C483, C488 VCH12 C103 C421, C434, C437, C439 CEVW221M4 C443, C444, C446 CEVW221M4 C407, C408, C416, C484 C407, C408, C416, C484 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C1130, C1131, C1163, C1166, C1167 VCH12 VCH12 VCH12 C701, C702, C711, C745 VCH12 C751, C752, C781, C904, C911 VCH12 C1313, C351, C412, C427, C428 CKSRYB102K50 C201, (C8)(C 2)(C 2)(C 2)(C 2)(C 2)(C 2)(C 2)(C 2	
C119, C205, C326, C483, C488 VCH12 C103 CEVW220M16 C421, C434, C437, C439 CEVW221M4 C443, C444, C446 CEVW221M4 C407, C408, C416, C484 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C119, C205, C326, C483, C488 VCH12 C535, C560, C601, C623, C625 VCH12 C701, C702, C711, C745 VCH12 C751, C752, C781, C904, C911 VCH12 C932, C939, C951, C964 (100/4V) C313, C351, C412, C427, C428 CKSRYB102K50	
C103 CEVW220M16 C421, C434, C437, C439 CEVW221M4 C701, C702, C711, C745 VCH12 C443, C444, C446 CEVW221M4 C751, C752, C781, C904, C911 VCH12 C407, C408, C416, C484 CKSQYB225K10 C932, C939, C951, C964 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 C313, C351, C412, C427, C428 CKSRYB102K50	
C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C751, C752, C781, C904, C911 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 D C313, C351, C412, C427, C428 CKSRYB102K50	
C443, C444, C446 CEVW221M4 C701, C702, C711, C745 VCH12 C407, C408, C416, C484 CKSQYB225K10 C751, C752, C781, C904, C911 VCH12 C1059, C1068, C1069, C1168, C216 CKSRYB102K50 C932, C939, C951, C964 VCH12 D C313, C351, C412, C427, C428 CKSRYB102K50	
C1059, C1068, C1069, C1168, C216	
D C313, C351, C412, C427, C428 CKSRYB102K50 (100/4V)	
D C313, C351, C412, C427, C428 CKSRYB102K50	11243
CO01 (CO(C O.))	
C528, C557, C559, C606, C617 CKSRYB102K50	11244
- C703, C733, C748, C750, C975 CKSRYB102K50 C985 CKSRYB102K50 RESISTORS	
0000	MC101 I
- 1.0, 0111, 0110, 0220, 0220	34C101J 34C103J
	34C220J
	34C470J
	34C470J
C212, C213, C227, C231 CKSRYB104K16	10 17 00
	34C470J
	/10S0R0J
	/10S0R0J
	/10S0R0J
	/10S0R0J
C972 CKSRYB105K6R3	
C106 CKSRYB152K50 R280, R301, R350, R401, R403 RS1/10	/10S0R0J
	/10S0R0J
	/10S0R0J
■ C266 CKSRYB224K10 R756–R760, R763, R907, R916 RS1/10.	/10S0R0J
C978 CKSRYB392K50 R919, R921, R923, R927 RS1/10.	/10S0R0J
C206, C214, C242, C357 CKSRYB472K50	
	/10S101J
D100	/16S1003F
DOES DOOR	/16S1202F
	/16S1503F
0303, C300, C410, C009, C723 CK3HTF104223 K18882, F18882, F18882	/16S2700F
C973, C976 CKSRYF104Z25 C1052-C1058, C1060, C1061, C1066 CKSRYF105Z10 R947, R951 RS1/16	/16S2701E
	/16S2701F /16S3000F
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5	6	Moule No. Description	Bout No.
Mark No. Description	Part No.	Mark No. Description	Part No.
R948, R953	RS1/16S3300F	C337, C347, C437, C447, C537	VCH1242
R132	RS1/16S4702F	C547 (47/50V)	VCH1242
R357, R362, R363, R368, R372	RS1/16S6802F	C101, C103, C151, C153, C311	VCH1247
R374	RS1/16S6802F	C321, C331, C411, C421, C431	VCH1247
R257 (R=1.0 ,W=1/4)	VCN1127	C511, C521, C531, C613 (100/16V)	VCH1247
R258, R259 (R=2.2 ,W=1/4)	VCN1128	C107, C301, C401, C501, C601	VCH1248
Other Resistors	RS1/16S###J	(330/6.3V) C105, C303, C305, C306, C403	VCH1249
THERS		C105, C303, C305, C306, C403	VOH1249
CN403 07P CONNECTOR	RKN1048	C405, C406, C503, C505, C506	VCH1249
CN403 07F CONNECTOR	S13B-PH-SM3	C607, C614 (47/16V)	VCH1249
	S5B-PH-SM3		
CN103 CONNECTOR	VDA1681	RESISTORS	
9008 FLEXIBLE CABLE	VKN1409	R331, R332, R334, R335	RN1/16SE1001D
CN114 4P CONNECTOR	VINI PUS	R341, R342, R344, R345	RN1/16SE1001D
CNI44E 40D CONNECTOR	V//N1416	R431, R432, R434, R435	RN1/16SE1001D
CN115 12P CONNECTOR	VKN1416	R441, R442, R444, R445	RN1/16SE1001D
CN402 17P CONNECTOR	VKN1421		RN1/16SE1001D
CN901 23P CONNECTOR	VKN1427	R531, R532, R534, R535	HINI/ TOSE TOOLD
CN111 24P CONNECTOR	VKN1464	DE41 DE40 DE44 DE4E	DN1/169E1001D
CN551 33P CONNECTOR	VKN1519	R541, R542, R544, R545	RN1/16SE1001D
		R301, R401, R501	RN1/16SE1602D
JA1001 HDMI CONNECTOR	VKN1810	R313, R314, R323, R324	RN1/16SE2000D
1002 SCREW PLATE	VNE1948	R413, R414, R423, R424	RN1/16SE2000D
KN1–KN4	VNF1109	R513, R514, R523, R524	RN1/16SE2000D
EARTH METAL FITTING			
X601 (16.5MHz)	VSS1160	R333, R336, R343, R346, R433	RN1/16SE30O1D
		R436, R443, R446, R533, R536	RN1/16SE3001D
X481 (27MHz)	VSS1172	R543, R546	RN1/16SE30O1D
		R101, R601	RS1/10S0R0J
_		R607	RS1/10S151J
AJKB ASSY [VWV198	84]	R373, R383, R473, R573	RS1/10S332J
EMICONDUCTORS		R608	RS1/16S75ROF
IC151, IC311, IC321, IC331, IC411	NJM5532MD	Other Resistors	RS1/16S###J
IC421, IC431, IC511, IC521, IC531	NJM5532MD		
\ IC102	NJM78M05FA	<u>OTHERS</u>	
\ IC102	NJM78M08FA	JA401 JACK	VKB1125
	PCM1738EG-3	JA301 JACK	VKB1133
IC301, IC401, IC501	PCW1730EG-3	CN101 33P CONNECTOR	VKN1519
10004 10400 10500	TOTOLIONELL	JA601 JACK	VKX1012
IC201, IC402, IC502	TC7SH08FU		
Q372, Q382, Q472, Q572	2SA1576A	KN101, KN102	VNF1084
Q601	2SC4081	EARTH METAL FITTING	
Q351, Q352, Q361, Q362, Q451	2SD2114K		
Q461, Q551, Q561	2SD2114K		
Q371, Q381, Q471, Q571	UMH9N	AJKB ASSY [VWV198	35]
D111	RB501V-40	SEMICONDUCTORS	
D151	UDZS6.2B	IC151, IC311, IC321, IC331, IC411	NJM5532MD
		IC421, IC431, IC511, IC521, IC531	NJM5532MD
APACITORS		⚠ IC102	NJM78M05FA
C351, C451, C551	CCH1510	⚠ IC101	NJM78M08FA
	0000011400150	10004 10404 10504	DOM44700F0 0

Q371, Q381, Q471, Q571	UMH9N	AJVP W221 [AMA186	စၥ၂
D111	RB501V-40	SEMICONDUCTORS	
D151	UDZS6.2B	IC151, IC311, IC321, IC331, IC411	NJM5532MD
		IC421, IC431, IC511, IC521, IC531	NJM5532MD
APACITORS		⚠ IC102	NJM78M05FA
C351, C451, C551	CCH1510	<u> </u>	NJM78M08FA
C615	CCSRCH120J50	IC301, IC401, IC501	PCM1738EG-3
C307-C309, C407-C409	CCSRCH331J50		
C507-C509	CCSRCH331J50	IC201, IC402, IC502	TC7SH08FJ
C109	CEHAZA471M6R3	Q372, Q382, Q472, Q572	2SA1576A
		Q601	2SC4081
C100	CEJQ470M16	Q351-Q353, Q361-Q363, Q451	2SD2114K
C111, C155, C610, C612	CKSRYB102K50	Q461, Q551, Q561	2SD2114K
C310, C410, C510, C602	CKSRYF104Z25		
C110, C201, C302, C400, C402	CKSRYF105Z10	Q371, Q381, Q471, Q571	UMH9N
C500, C502, C608, C609, C611	CKSRYF105Z10	D111	RB501V-40
		D151	UDZS6.2B
C334, C335, C344, C345 (470p)	VCE1035		
C434, C435, C444, C445 (470p)	VCE1035	<u>CAPACITORS</u>	
C534, C535, C544, C545 (470p)	VCE1035	C351, C451, C551	CCH1510
C313, C314, C323, C324, C333	VCE1048	C615	CCSRCH110J50
C343, C413, C414, C423, C424	VCE1048	C307-C309, C407-C409	CCSRCH3% J50
		C507-C509	50ل CCSRCH3
C433, C443, C513, C514 (2200P)	VCE1048	C109	CEHAZA471 16R3
C523, C524, C533, C543 (2200P)	VCE1048		

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В

VCE1048 VCE1048

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C433, C443, C513, C514 (2200P) C523, C524, C533, C543 (2200P)

_	'	_	2		3	_	4
	Mark No.	Description	Part No.	ı	lark No.	Description	Part No.
	C100		CEJQ470M16	_	IC201, IC402		TC7SH08FU
	C111, C155, C	610 C612	CKSRYB102K50			Q472, Q572	2SA1576A
Α	C310, C410, C		CKSRYF104Z25		Q601	Q 112, Q012	2SC4081
^		302, C400, C402	CKSRYF105Z10			Q361-Q363, Q451	2SD2114K
		608, C609, C611	CKSRYF105Z10				
					Q461, Q551,	Q561	2SD2114K
		344, C345 (470p)	VCE1035		Q371, Q381,	Q471, Q571	UMH9N
		2444, C445 (470p)	VCE1035		D111		RB501V-40
		544, C545 (470p)	VCE1035		D151		UDZS6.2B
•		323, C324, C333	VCE1048	_			
	C343, C413, C	3414, C423, C424	VCE1048	<u>C</u>	APACITOR		
	C400 C440 C	NE40 OE44 (0000D)	V054040		C308, C309,	C408, C409	CCSRCH101J50
		513, C514 (2200P) 533, C543 (2200P)	VCE1048		C508, C509		CCSRCH101J50
		333, C343 (2200P) 3437, C447, C537	VCE1048 VCH1242		C615		CCSRCH120J50
В	C547 (47/50V)		VCH1242 VCH1242		C307, C407,		CCSRCH331J50
Ь	, ,	:151, C153, C311	VCH1247		C101, C103,	C151, C153, C311	CEAT101M16
	0101, 0100, 0	7101, 0100, 0011	10111241		C221 C221	C411, C421, C431	CEAT101M16
	C321, C331, C	411, C421, C431	VCH1247		C521, C531,		CEAT101M16
		531, C613 (100/16V)	VCH1247			C301, C401, C501	CEAT101M16 CEAT331M10
	C107, C301, C	401, C501, C601	VCH1248		C601	0001, 0401, 0001	CEAT331M10
_	(330/6.3V)				C305, C306,	C337, C347	CEAT470M16
	C105, C303, C	305, C306, C403	VCH1249		0000, 0000,	0001, 0011	02/114/01/110
					C405, C406,	C437, C447	CEAT470M16
		503, C505, C506	VCH1249		C505, C506,		CEAT470M16
	C607, C614 (4	7/16 V)	VCH1249		C303, C403,	C503	CEJQ101M6R3
					C351, C451,	C551, C607	CEJQ1R0M50
	<u>RESISTORS</u>				C111, C610,	C612	CKSRYB102K50
С	R331, R332, R		RN1/16SE1001D				
	R341, R342, R	•	RN1/16SE1001D		C310, C410,		CKSRYF104Z25
	R431, R432, R		RN1/16SE1001D			C302, C400, C402	CKSRYF105Z10
	R441, R442, R		RN1/16SE1001D			C608, C609, C611	CKSRYF105Z10
	R531, R532, R	1534, H535	RN1/16SE1001D			C323, C324, C333	CQMBA222J50
	R541, R542, R	EAA DEAE	DN1/169E1001D		C343, C413,	C414, C423, C424	CQMBA222J50
	R301, R401, R	· ·	RN1/16SE1001D RN1/16SE1602D		C433, C443,	CE12 CE14	COMPAGGG IFO
	R313, R314, R		RN1/16SE2000D		C523, C524,		CQMBA222J50 CQMBA222J50
	R413, R414, R		RN1/16SE2000D		C334, C335,		CQMBA471J50
	R513, R514, R		RN1/16SE2000D		C434, C435,	,	CQMBA471J50
	, , , ,	, , , , , , , , , , , , , , , , , , , ,			C534, C535,		CQMBA471J50
	R333, R336, R	343, R346, R433	RN1/16SE3001D			,	
D	R436, R443, R	446, R533, R536	RN1/16SE3001D	R	ESISTORS		
	R543, R546		RN1/16SE3001D	_	R331, R332,	R334, R335	RN1/16SE1001D
	R101, R601		RS1/10S0R0J		R341, R342,	•	RN1/16SE1001D
	R607		RS1/10S151J		R431, R432,		RN1/16SE1001D
	5.00				R441, R442,		RN1/16SE1001D
	R373, R383, R	473, R573	RS1/10S332J		R531, R532,	R534, R535	RN1/16SE1001D
	R608	_	RS1/16S75R0F				
	Other Resistor	S .	RS1/16S###J		R541, R542,		RN1/16SE1001D
	OTHERS				R301, R401,		RN1/16SE1602D
		JECTOD DOCT	DOD DILLY		R313, R314,		RN1/16SE2000D
	JA401 JACK	NECTOR POST	B3B-PH-K		R413, R414,		RN1/16SE2000D
	JA301 JACK		VKB1125 VKB1133		R513, R514,	H523, H524	RN1/16SE2000D
Е	CN101 33P C	CONNECTOR	VKN1519		Daga Dage	R343, R346, R433	DN4/400E0004D
	JA601 JACK	ONNEOTOR	VKX1012			R446, R533, R536	RN1/16SE3001D
	UNION UNON		VIOCIOIZ		R543, R546	11440, 11333, 11330	RN1/16SE3001D RN1/16SE3001D
	KN101, KN102		VNF1084		R101, R601		RS1/10S0R0J
		METAL FITTING	*****		R607		RS1/10S151J
					R373, R383,	R473, R573	RS1/10S332J
					R608		RS1/16S75R0F
		ASSY [VWV199	90]		Other Resisto	ors	RS1/16S###J
	SEMICONDUC	CTORS					
		IC321, IC411, IC421	BA4560F	<u>0</u>	THERS		
	IC511, IC521		BA4560F			INECTOR POST	B3B-PH-K
F	IC331, IC431, I	IC531	NJM2068MD		JA401 JACK		VKB1125
'	⚠ IC102		NJM78M05FA		JA301 JACK		VKB1133
	⚠ IC101		NJM78M08FA			CONNECTOR	VKN1519
	10004	10504	BOLUTA -		JA601 JACK		VKX1012
	IC301, IC401, I	IC501	PCM1738EG-3				

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IC301, IC401, IC501

PCM1738EG-3

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Mark No. Description KN101, KN102 EARTH METAL FITTING	Part No. VNF1084	Mark No. Description ⚠ IC101 Q304–Q306 Q602	Part No. MM1565AF 2SA1576A DTC114YUA	
D VJKB ASSY [VWV198	261	Q301–Q303, Q601	UMD3N	
	50]	D201	1SS355	
SEMICONDUCTORS		D301, D609	DAN202K	
IC302	LA73054	D101	RB501V-40	
∱ IC101	MM1565AF			
Q304–Q306	2SA1576A	COILS AND FILTERS		
Q301-Q303	UMD3N	F301-F303 12MHZ LPF(VIDEO)	VTF1175	
D201	1SS355	L401, L402 CHIP BEADS	VTL1089	
D301	DAN202K	CAPACITORS		
D101	RB501V-40	C318, C320, C322	CCSRCH100D50	
		C201, C202	CCSRCH470J50	
COILS AND FILTERS		C325-C327	CCSRCH4R0C50	
F301-F303 12MHZ LPF(VIDEO)	VTF1175	C328-C330	CCSRCH7R0D50	
L401, L402 CHIP BEADS	VTL1089	C107	CEAT101M16	
ADACITODS		C401, C403, C405, C408, C413	CEAT102M6R3	
CAPACITORS	CCSRCH100D50	C109	CEAT221M6R3	
C318, C320, C322		C414, C417	CEAT471M6R3	
C201, C202	CCSRCH470J50	C304, C314, C604, C614	CEHAZA471M6R3	
C325-C327	CCSRCH4R0C50	C110	CKSQYB225K10	
C328-C330	CCSRCH7R0D50	0110	ONOG I DELOVITO	
C107	CEAT101M16	C305, C606, C618	CKSQYF104Z25	
0.00	054740014070	C315, C615	CKSQYF105Z16	
C401, C403, C405, C408, C413	CEAT102M6R3	C108	CKSQYF105Z25	
C109	CEAT221M6R3	C108 C112, C324	CKSRYB102K50	
C414, C417	CEAT471M6R3	C303, C307–C309, C312, C313	CKSRYB104K16	
C304, C314	CEHAZA471M6R3	0303, 0307–0309, 0312, 0313	CKSHTB104K10	
C110	CKSQYB225K10	C605, C609, C610, C617	CKSRYB104K16	
		C317, C319, C321, C406, C409	CKSRYF104Z25	
C305	CKSQYF104Z25	C608, C611, C613, C619	CKSRYF104Z25	
C315	CKSQYF105Z16		CKSRYF105Z10	
C108	CKSQYF105Z25	C206, C306, C311, C316		
C112, C324	CKSRYB102K50	C602, C603, C607, C612	CKSRYF105Z10	
C303, C307-C309, C312, C313	CKSRYB104K16	DECICTORS		
		RESISTORS	D0444000D0 4	
C317, C319, C321, C406, C409	CKSRYF104Z25	R101, R104-R106, R302, R601	RS1/10S0R0J	
C206, C306, C311, C316	CKSRYF105Z10	R608	RS1/10S0R0J	
		R410, R412	RS1/10S1R0J	
RESISTORS		R409	RS1/10S1R8J	
R101, R104-R106, R302	RS1/10S0R0J	R650, R651	RS1/10S3R3 J	
R410, R412	RS1/10S1R0J		DO1/4000000D	
R409	RS1/10S1R8J	R414-R416	RS1/10S68ROD	
R414-R416	RS1/10S68R0D	R401-R404, R406, R407	RS1/10S75ROF	
R401-R404, R406, R407	RS1/10S75R0F	R323, R328, R334	RS1/16S22)2F	
		R318, R325, R332	RS1/16S30)OD	
R323, R328, R334	RS1/16S2202F	Other Resistors	RS1/16S###J	
R318, R325, R332	RS1/16S3000D			
Other Resistors	RS1/16S###J	<u>OTHERS</u>		
		CN402 SOCKET	AKP7023	
OTHERS		CN601 CONNECTOR POST	B3B-PH-K	
CN402 SOCKET	AKP7023	JA201, JA202 JACK	RKN1004	
JA201, JA202 JACK	RKN1004	PCB BINDER	VEF1040	
PCB BINDER	VEF1040	JA401 JACK	VKB1135	
JA401 JACK	VKB1135			
JA401 JACK JA403 JACK	VKB1155 VKB1151	JA403 JACK	VKB1151	
UNTUS UNCIN	VICETION	CN602 19P CONNECTOR	VKN1250	
CNIOI 22P CONNECTOR	VKN1427	CN101 23P CONNECTOR	VKN1427	
CN101 23P CONNECTOR KN101–KN104	VKN1427	KN101-KN104	VNF1084	
	VNF1084			
EARTH METAL FITTING		EARTH METAL FITTING		

D VJKB ASSY [VWV1988] SEMICONDUCTORS

IC302, IC601 IC603

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LA73054 MM1507XN

VJKB ASSY [VWV1989]

SEMICONDUCTORS
IC302, IC601
IC603
IC101

DV-59AVi

7 LA73054 MM1507XN MM1565AF

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Mark No. Description	Part No.	Mark No.	Description	Part No.
Q304-Q306	2SA1576A	RY901-RY905	-	VSR1017
Q602	DTC114YUA	111001 111000		VOI 11017
		CAPACITORS		
Q301-Q303, Q601	UMD3N	C904, C914, C93	so Casa	CCSRCH221J50
D201	1SS355	C903, C910, C91		CCSRCH391J50
D301, D609	DAN202K	C927	3, 0321	CCSRCH470J50
D101	RB501V-40	C929, C930, C93	37 C943	CEAT101M10
		C946, C953	77,0040	CEAT102M6R3
COILS AND FILTERS		00.0,0000		O E / II TO E IVIOTIO
L401, L402 CHIP BEADS	VTL1089	C901, C902, C90	7, C909	CKSRYF104Z25
		C916, C917, C92		CKSRYF104Z25
CAPACITORS		C936, C938-C94	11, C945, C950	CKSRYF104Z25
C201, C202	CCSRCH470J50	C935	•	CKSRYF105Z10
C107	CEAT101M16			
C401, C403, C405, C408, C413	CEAT102M6R3	RESISTORS		
C109	CEAT221M6R3	R936		RS1/10S1R5J
C414, C417	CEAT471M6R3	R943, R950		RS1/10S68R0F
· · · · · · · · · · · · · · · · · · ·		R932, R937, R95	5. R965	RS1/10S75R0F
C304, C314, C604, C614	CEHAZA471M6R3	Other Resistors	,	RS1/16S###J
C110	CKSQYB225K10			
C305, C606, C618	CKSQYF104Z25	OTHERS		
C315, C615	CKSQYF105Z16	JA901, JA902 C	CONNECTOR	VKB1157
C108	CKSQYF105Z25	CN901 19P CO		VKN1279
C112, C324	CKSRYB102K50			
C303, C307-C309, C312, C313	CKSRYB104K16	F		
C605, C609, C610, C617	CKSRYB104K16	FLKY AS	SSY [VWG24	59]
C317, C319, C321, C406, C409	CKSRYF104Z25	SEMICONDUC		_
C608, C611, C613, C619	CKSRYF104Z25	IC101		PE5314B
		IC102		PST3228
C206, C306, C311, C316	CKSRYF105Z10	Q102, Q802		DTA124EUA
C602, C603, C607, C612	CKSRYF105Z10	Q101, Q801		DTC124EK
RESISTORS		SWITCHES AN	D RELAYS	
R101, R104-R106, R302, R601	RS1/10S0R0J	S101-S106		VSG1024
R608	RS1/10S0R0J			
R409, R650, R651	RS1/10S3R3J	CAPACITORS		
R410, R412	RS1/10S3R9J	C101, C103, C10	7 C108 C161	CCSRCH102J50
R414—R416	RS1/10S68R0D	C104	7, 0, 100, 0, 101	CEAL470M6R3
D404 D404 D400 D407	D04/40075D05	C100		CEJQ101M6R3
R401—R404, R406, R407	RS1/10S75R0F	C801, C802		CKSRYB102K50
Other Resistors	RS1/16S###J	C111		CKSRYB103K50
<u>OTHERS</u>		C116		CKSRYF104Z50
CN402 SOCKET	AKP7023	C102, C105, C11	0 C113 C115	CKSRYF105Z10
CN601 CONNECTOR POST	B3B-PH-K	0102, 0103, 011	0, 0113, 0113	OKSH11 103210
JA201, JA202 JACK	RKN1004	RESISTORS		
PCB BINDER	VEF1040	All Resistors		DC4/46C###1
JA401 JACK	VKB1135			RS1/16S###J
JA403 JACK	VKB1151	<u>OTHERS</u>		
CN602 19P CONNECTOR	VKN1250	CN102 CONNE	CTOR 9P	09P-FJ
CN101 23P CONNECTOR	VKN1427	IC103 REMOTE	RECEIVER UNIT	SPS-452L-H
KN101-KN104	VNF1084	V101 FLTUBE		VAW1073
EARTH METAL FITTING		SPACER		VEC2220
		CN101 17P CO	NNECTOR	VKN1277

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SCRB ASSY [VWV1992] SEMICONDUCTORS

IC901	MM1505XN
IC902	MM1507XN
Q904	2SA1576A
Q901, Q902, Q905	2SC4081
D999	1SR154-400
Dood Doog Book Doog	100055
D901, D903, D905-D909	1SS355

D911, D912, D914-D916 **SWITCHES AND RELAYS**

FLKY ASSY [VWG2456] **SEMICONDUCTORS**

IC101	PE5314B
IC102	PST3228
Q102, Q802	DTA124EUA
Q101, Q801	DTC124EK

SWITCHES AND RELAYS

CN101 17P CONNECTOR

HOLDER

X101 (5MHz)

S101-S106 VSG1024

DV-59AVi

1SS355

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VKN1277

VNF1122

VSS1142

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C901 CKSRYF105Z10	Mark No.	<u>Description</u>	Part No.	Mark No. Descriptio	<u>n Part No.</u>
COTOL, C103, C107, C108, C161 C104 C100 CEJC010MBR3 C801, C802 CKSRYPRIOX50 CKSRYPRIOX50 CH111 CKSRYPIOSC10 CKSRYPIOSC10 CKSRYPIOSC20 CKSRYPIOSC20 CKSRYPIOSC20 CH116 CKSRYPIOSC10 CKSRYPIOSC10 CKSRYPIOSC10 CKSRYPIOSC10 CH16RS C102, C105, C110, C113, C115 CKSRYPIOSC10 CKSRYPIOSC10 CH16RS CN102 CONNECTOR 9P C103 REMOTE RECEIVER UNIT VIOT FLTUBE SPACER CN101 C70NECTOR 9P C103 REMOTE RECEIVER UNIT CVST112 SPACER CN101 C70NECTOR 9P C103 REMOTE RECEIVER UNIT CVST1142 CN101 TPP CONNECTOR CN101 TPP CN101 TPP CN101 TPP CN101 TPP C				CAPACITORS	
C104	CAPACITORS	<u>S</u>		C901	CKSRYF105Z10
C010	C101, C103, C	C107, C108, C161	CCSRCH102J50		
C891, C802 C111 CKSPYF103K50 C112 CKSPYF104Z50 C116 C112 CKSPYF104Z50 CKSPYF104Z50 CKSPYF105Z10 CKSPYF10SZ10 CKSPYF10SZ10 CKSPYF10SZ10	C104		CEAL470M6R3	<u>RESISTORS</u>	
C111	C100		CEJQ101M6R3		RS1/10S0R0J
C116 C102, C105, C110, C113, C115 CKSRYF104Z50 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CMIC CONNECTOR 9P C1013 REMOTE RECEIVER UNIT VIOT FL TUBE SPANCER CMIC CONNECTOR 9P C1013 REMOTE RECEIVER UNIT VIOT FL TUBE SPANCER CMIC CONNECTOR 9P C1013 REMOTE RECEIVER UNIT VIOT FL TUBE CMIC CONNECTOR 9P C1013 REMOTE RECEIVER UNIT VIOT FL TUBE CMIC CMIC CONNECTOR 9P C1014 REMOTE RECEIVER UNIT VIOT FL TUBE CMIC CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMIC CMSRYF105Z10 CMIC CMIC CMIC CMIC CMIC CMIC CMIC CMIC	C801, C802		CKSRYB102K50	R207, R224, R901, R902	RS1/10S182J
C102, C105, C110, C113, C115	C111		CKSRYB103K50	Other Resistors	RS1/16S###J
CICLO2, C105, C110, C113, C115	C116		CKSRYF104Z50	OTHERS	
## All Resistors RS1/16S###J CKEYB ASSY [VWG2457] ## OTHERS CONNECTOR 9P G9P-FJ C103 REMOTE RECEIVER UNIT SPS-452L-H D201, D203, D204 SLR-343BBT ## VIOTO 1-FT-UBE SPS-452L-H D201, D203, D204 SLR-343BBT ## VIOTO 1-FT-UBE SPS-452L-H D201, D203, D204 SLR-343BBT ## D201, D203, D204 SLR-343BBT		C110, C113, C115			09R-FJ
All Resistors	DECICTORS				
OTHERS CN102 CONNECTOR 9P 0SP.F.J. SPS-452L-H VIOT FLTUBE SPS-452L-H VIOT FLTUBE D205, D206 D207, D203, D204 SLR-343BBT D205, D206 D207, D203, D204 SLR-343BVC SLR-343BVC D207, D203, D204 SLR-343BVC SLR-343BVC D207, D203, D204			DC1/16C###1	_	
OTHERS SEMICONDUCTORS CN102 CONNECTOR 9P IC103 REMOTE RECEIVER UNIT VIOT FLTUBE 09P-FJ SPS-452L-H VAW1073 SPACER D205, D208 PSP-452L-H VAW1073 SPACER SLR-343BBT D205, D203, D204 SLR-343BBT SLR-343BVC X101 (SMHz) VSS1142 SWITCHES AND RELAYS S201, S202 VSG1024 X101 (SMHz) VSS1142 CAPACITORS C291, C292 C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 CKSRYB103KSG C901 RS1/10SRBJ RESISTORS RS1/10SRBJ RESISTORS RS1/10SRBJ RESISTORS RS1/10SRBJ RESISTORS RS1/10SRBJ RESISTORS RS1/10SRBJ RESISTORS CMSBYB102KSG CND1 (CONNECTOR 9P CN202 CONNECTOR 9P CN202 CONN	All Resisions		n31/103 1/11/1 0	KEYB ASSY IVWO	32457 1
CN102 CONNECTOR 9P	OTHERS				•
ICTOR REMOTE RECEIVER UNIT		NECTOR 9P	09P-FJ		SI R-343BBT
VID FLTUBE VAW1073 SPACER VEC220 CN101 17P CONNECTOR VKN1277 VKN1277 S201, S202 VSG1024					
SPACER CN101 17P CONNECTOR VKN1277 HOLDER X101 (5MHz) X101 (5MHz) XSS1142 XSS1142 XSS1142 CAPACITORS CYSPT 1025210 FLKY ASSY [VWG2448] SEMICONDUCTORS IC101 PST3228 C0802 DTA124EUA O8801 DTC124EK C102 CSPACITORS CN201 CONNECTOR P CN202 CONNECTOR P CN302 CKSRYB103K50 C104 C100 CEAL470M6R3 C100 C100 CECU1011M6R3 C100 C101 CYSRYB103K50 C101 C102 CSSRYB103K50 C104 C100 CECU1011M6R3 C100 CECU1011M6R3 C100 CECU1011M6R3 C100 CECU1011M6R3 C100 CHSRYB103K50 C1011 CKSRYB103K50 C1011 CKSRYB103K50 C1011 CKSRYB103K50 C1011 CKSRYB103K50 C1011 CKSRYB103K50 C1011 CHSRYB103K50 C1011 CHSRYB103K50 C1011 CHSRYB103K50 C1011 CHSRYB103K50 C1010 CHSRYB103K50 C1011 CHSRYB103K50 C1011 CHSRYB103K50 C1011 CHSRYB103K50 CHSRSBTORS CHCRC CHOOLOCATOR P CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 CHSRS CHCCNDUCTOR P CHSRSBTORS CHCCNDUCTOR P CHCCNDUCTOR P CHSRSBTORS CHCCNDUCTOR P CHSRSBTORS CHCCNDUCTOR P CHSRSBTORS CHCCNDUCTOR P CHSRSBTORS CHCCNDUCTO				D201, D200, D204	0211 04010
CN101 17P CONNECTOR				SWITCHES AND RELAVS	
HOLDER					VSG1024
C291, C292			VNF1122	3201, 3202	V3G1024
C291, C292 CKSHYBIUSKBC CKSRYF10SZ10 C101	V101 /5MH=	١	VSS1142	<u>CAPACITORS</u>	
SEMICONDUCTORS PE5314B PE5314B R208, R223 R51/1050RUJ R207, R224, R901, R902 R51/105182J R207, R207, R224, R901, R902 R51/105182J R207, R207, R224, R901, R902 R51/1050RUJ R51/105182J R207, R20	ATUT (SIVIE)	J	V001172	C291, C292	CKSRYB103K50
SEMICONDUCTORS				C901	CKSRYF105Z10
SEMICONDUCTORS	BELKY	ASSA LYMCOV	191	RESISTORS	
C101			1 0]		RS1/10S0R0.1
Color		CIORS			
C102					
SWITCHES AND RELAYS SUITCHES AND RELAYS SEMICONDUCTORS				Cirio ricololore	1101/100////
SWITCHES AND RELAYS S101-S106				OTHERS	
SWITCHES AND RELAYS S101-S106 VSG1024 CAPACITORS C101, C103, C107, C108, C161 CEAL470M6R3 C100 CEBCIO1M6R3 C802 CKSRYB102K50 C111 CKSRYB102K50 C102, C105, C110, C113, C115 CKSRYF105Z10 RESISTORS All Resistors All Resistors All Resistors All Resistors CN202 CONNECTOR S2B-PH-K SEMICONDUCTORS SEMICONDUCTORS SEMICONDUCTORS SWITCHES AND RELAYS CKSRYF105Z10 CAPACITORS CAPACITORS CAPACITORS CAPACITORS CAPACITORS SWITCHES AND RELAYS All Resistors RS1/16S##J OTHERS CN201 CONNECTOR 9P 09R-FJ MSWB ASSY [VWG2455] SWITCHES AND RELAYS All S301 VSA1005 SEMICONDUCTORS OTHERS	Q801		DTC124EK		OOR-F I
SI01-S106	OWITOUES A	ND DEL AVO			
CAPACITORS C101, C103, C107, C108, C161 CCSRCH102J50 C104 CEAL470M6R3 C100 CEJQ101M6R3 C802 CKSRYB102K50 C111 CKSRYB103K50 C116 CKSRYB103K50 C116 CKSRYF104Z50 C102, C105, C110, C113, C115 CKSRYF105Z10 CAPACITORS All Resistors RS1/16S###J RESISTORS All Resistors RS1/16S###J CN102 CONNECTOR 9P 09P-FJ IC103 REMOTE RECEIVER UNIT SPS-452L-H V101 FL TUBE VAW1073 SPACER VEC2220 CN101 17P CONNECTOR VKN1277 HOLDER VKN1277 HOLDER VKS1142 MSWB ASSY [VWG2455] SWITCHES AND RELAYS All NSWB ASSY [VWG2455] SWITCHES AND RELA		AND RELATS	VSG1024	3,1252 33,11123,311	
C101, C103, C107, C108, C161 C104 C100 CEJQ101M6R3 C802 C111 CKSRYB102K50 C111 CKSRYB103K50 C116 C102, C105, C110, C113, C115 CKSRYF105Z10 RESISTORS All Resistors All Resistors RS1/16S###J C103 REMOTE RECEIVER UNIT V101 FL TUBE VAW1073 SPACER CN101 17P CONNECTOR PHOLDER CN101 17P CONNECTOR VKN1277 HOLDER X101 (5MHz) XSA105 XSEMICONDUCTORS D205 SLR-343BBT D205 SUITCHES AND RELAYS S201-S203 VSG1024 CAPACITORS C901 CKSRYF105Z10 CAPACITORS RESISTORS RS1/16S###J RESISTORS R208 RS1/10S0RU R207, R902 RS1/10S182J Other Resistors RS1/16S##J OTHERS CN207, R902 CN207, R902 RS1/10S182J Other Resistors RS1/16S##J WSWB ASSY [VWG2455] SWITCHES AND RELAYS CN201 CONNECTOR 9P 09R-FJ WSWB ASSY [VWG2455] SWITCHES AND RELAYS A	3101-3100		VOG1024		
C101, C103, C107, C108, C161 C104 C100 CEJQ101M6R3 C802 C111 CKSRYB102K50 C111 CKSRYB103K50 C116 C102, C105, C110, C113, C115 CKSRYF105Z10 RESISTORS All Resistors C102 CONNECTOR 9P IC103 REMOTE RECEIVER UNIT V101 FL TUBE VAW1073 SPACER CN101 17P CONNECTOR HOLDER VKN1277 HOLDER VKS1142 SEMICONDUCTORS D205 D205 SLR-343BBT D205 SUITCHES AND RELAYS S201–S203 VSG1024 CAPACITORS CAPACITORS C901 CKSRYF105Z10 RESISTORS R208 R207, R902 R51/10S0RU R207, R902 R51/10S182J Other Resistors RS1/16S###J OTHERS CN101 17P CONNECTOR 9P VKN1277 HOLDER VKN1277 HOLDER VKN1277 HOLDER VKS1142 WSSWB ASSY [VWG2455] SWITCHES AND RELAYS CN201 CONNECTOR 9P 09R-FJ WSWB ASSY [VWG2455] SWITCHES AND RELAYS All RSWB ASSY [VWG2455] SWITCHES AND RELAYS All RSWB ASSY [VWG2455] SWITCHES AND RELAYS AS301 VSA1005	CAPACITORS	<u>S</u>		KEYB ASSY IVWO	324491
C104	C101, C103, 0	C107, C108, C161	CCSRCH102J50		
C100 C802 CKSRYB102K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 SWITCHES AND RELAYS S201-S203 VSG1024 C116 C102, C105, C110, C113, C115 CKSRYF105Z10 CAPACITORS C901 CKSRYF105Z10 RESISTORS All Resistors RS1/16S###J RESISTORS CN102 CONNECTOR 9P 09P-FJ 1C103 REMOTE RECEIVER UNIT SPS-452L-H V101 FL TUBE VAW1073 SPACER VEC2220 CN101 17P CONNECTOR VKN1277 HOLDER VNF1122 X101 (5MHz) VSS1142 MSWB ASSY [VWG2455] SWITCHES AND RELAYS CXBRYF105Z10 CAPACITORS CP01 CKSRYF105Z10 CN201 CONNECTOR 9P 09R-FJ MSWB ASSY [VWG2455] SWITCHES AND RELAYS SSMITCHES AND RELAYS SMITCHES AND RELAYS SM			CEAL470M6R3		CLD 040DDT
C802 C111 CKSRYB103K50 CKSRYB103K50 CKSRYB103K50 C116 C102, C105, C110, C113, C115 CKSRYF105Z10 RESISTORS All Resistors RS1/16S###J OTHERS CN102 CONNECTOR 9P 1C103 REMOTE RECEIVER UNIT V101 FL TUBE SPACER CN101 17P CONNECTOR HOLDER VNF1122 X101 (5MHz) VSS1142 CKSRYF104Z50 S201—S203 VSG1024 CAPACITORS C901 CKSRYF105Z10 RESISTORS RS1/10S0RUJ R207, R902 RS1/10S182J RS1/10S0RUJ R207, R902 RS1/10S182J RS1/16S###J Other Resistors RS1/16S###J OTHERS CN201 CONNECTOR 9P 09R-FJ MSWB ASSY [VWG2455] SWITCHES AND RELAYS VSA1005 SEMICONDUCTORS OTHERS OTHERS	C100		CEJQ101M6R3		
C116	C802		CKSRYB102K50	D203, D204	5LN-343VC
C116 C102, C105, C110, C113, C115 CKSRYF104Z50 CKSRYF105Z10 S201—S203 VSG1024 CEAPACITORS All Resistors RS1/16S###J C901 CKSRYF105Z10 RESISTORS CN102 CONNECTOR 9P 09P-FJ R208 RS1/10S0R0J R207, R902 RS1/10S182J RS1/10S182J IC103 REMOTE RECEIVER UNIT SPS-452L-H Other Resistors RS1/16S###J V101 FL TUBE VAW1073 VEC2220 OTHERS OTHERS CN101 17P CONNECTOR VKN1277 CN201 CONNECTOR 9P 09R-FJ HOLDER VNF1122 MSWB ASSY [VWG2455] SWITCHES AND RELAYS A S301 VSA1005 SEMICONDUCTORS OTHERS	C111		CKSRYB103K50	CWITCHES AND DELAYS	
C102, C105, C110, C113, C115 RESISTORS All Resistors RS1/16S###J RESISTORS CN102 CONNECTOR 9P CN103 REMOTE RECEIVER UNIT SPS-452L-H V101 FL TUBE SPACER VEC2220 CN101 17P CONNECTOR VKN1277 HOLDER CN201 CONNECTOR 9P CN201 CONNECTOR					1/00/100/
RESISTORS All Resistors RS1/16S###J RESISTORS C901 CKSRYF105Z10 RESISTORS R208 RS1/10S0R0J R207, R902 RS1/10S182J RS1/10S182J RS1/10S182J RS1/16S###J Other Resistors RS1/16S###J Other Resistors CN101 17P CONNECTOR WKN1277 HOLDER X101 (5MHz) VSS1142 CAPACITORS C901 CKSRYF105Z10 CKSRYF105Z10 CKSRYF105Z10 RS1/10S0R0J R207, R902 RS1/10S182J RS1/16S###J Other Resistors OTHERS CN201 CONNECTOR 9P O9R-FJ MSWB ASSY [VWG2455] SWITCHES AND RELAYS A S301 VSA1005 OTHERS				S201-S203	VSG1024
RESISTORS All Resistors RS1/16S###J RESISTORS OTHERS R208 RS1/10S0R0J CN102 CONNECTOR 9P 09P-FJ R207, R902 RS1/10S182J IC103 REMOTE RECEIVER UNIT V101 FL TUBE VAW1073 SPACER VEC2220 Other Resistors RS1/16S###J CN101 17P CONNECTOR VKN1277 HOLDER VNF1122 CN201 CONNECTOR 9P 09R-FJ X101 (5MHz) VSS1142 MSWB ASSY [VWG2455] SWITCHES AND RELAYS AND RELAYS AS301 VSA1005 OTHERS OTHERS	C102, C105, (C110, C113, C115	CKSRYF105Z10	CADACITODO	
All Resistors RS1/16S###J PRESISTORS R208 RS1/10S0R0J R207, R902 RS1/10S182J R207, R902 RS1/10S182J RS1/16S###J Other Resistors RS1/16S###J Other Resistors OTHERS CN101 17P CONNECTOR HOLDER X101 (5MHz) VSS1142 RESISTORS R208 RS1/10S0R0J R207, R902 RS1/10S182J Other Resistors RS1/16S###J Other Resistors OTHERS CN201 CONNECTOR 9P O9R-FJ WSWB ASSY [VWG2455] SWITCHES AND RELAYS AS301 VSA1005 SEMICONDUCTORS OTHERS					01/07)/5/05
RESISTORS CN102 CONNECTOR 9P 09P-FJ R208 RS1/10S0R0J IC103 REMOTE RECEIVER UNIT SPS-452L-H Other Resistors RS1/10S182J V101 FL TUBE VAW1073 VEC2220 OTHERS CN101 17P CONNECTOR VKN1277 CN201 CONNECTOR 9P 09R-FJ HOLDER VNF1122 WSS1142 WSWB ASSY [VWG2455] SWITCHES AND RELAYS AS301 VSA1005 SEMICONDUCTORS OTHERS	<u>RESISTORS</u>			C901	CKSHYF105Z10
OTHERS R208 RS1/10S0RQJ CN102 CONNECTOR 9P 09P-FJ R207, R902 RS1/10S182J IC103 REMOTE RECEIVER UNIT SPS-452L-H Other Resistors RS1/16S###J V101 FL TUBE VAW1073 VEC2220 OTHERS CN101 17P CONNECTOR VKN1277 CN201 CONNECTOR 9P 09R-FJ HOLDER VNF1122 WSS1142 WSWB ASSY [VWG2455] SWITCHES AND RELAYS AS301 VSA1005 SEMICONDUCTORS OTHERS	All Resistors		RS1/16S###J	DECICTORS	
CN102 CONNECTOR 9P 09P-FJ R207, R902 RS1/10S182J IC103 REMOTE RECEIVER UNIT SPS-452L-H V101 FL TUBE VAW1073 SPACER VEC2220 CN101 17P CONNECTOR VKN1277 HOLDER VNF1122 X101 (5MHz) VSS1142 ■ MSWB ASSY [VWG2455] SWITCHES AND RELAYS SEMICONDUCTORS OTHERS CN201 CONNECTOR 9P 09R-FJ WSWB ASSY [VWG2455] SWITCHES AND RELAYS S301 VSA1005 OTHERS					D04/4000D0 \$
IC103 REMOTE RECEIVER UNIT SPS-452L-H Other Resistors RS1/16S###J V101 FL TUBE VAW1073 SPACER VEC2220 CN101 17P CONNECTOR VKN1277 HOLDER VNF1122 X101 (5MHz) VSS1142 MSWB ASSY [VWG2455] SWITCHES AND RELAYS S301 VSA1005 SEMICONDUCTORS OTHERS OTHERS OTHERS OTHERS OTHERS					
V101 FL TUBE	CN102 CON	NECTOR 9P		·	
SPACER VEC2220 OTHERS CN101 17P CONNECTOR VKN1277 CN201 CONNECTOR 9P 09R-FJ WSS1142 WSS1142 WSWB ASSY [VWG2455] SWITCHES AND RELAYS				Other Hesistors	HS1/16S###J
CN101 17P CONNECTOR VKN1277 HOLDER VNF1122 X101 (5MHz) VSS1142 WSWB ASSY [VWG2455] SWITCHES AND RELAYS SEMICONDUCTORS OTHERS	V101 FLTUE	BE		CTUEDO	
HOLDER VNF1122 X101 (5MHz) VSS1142 WSWB ASSY [VWG2455] SWITCHES AND RELAYS SEMICONDUCTORS OTHERS OTHERS					
X101 (5MHz) VSS1142 ■ MSWB ASSY [VWG2455] SWITCHES AND RELAYS SSMITCHES AND RELAYS OTHERS OTHERS				CN201 CONNECTOR 9P	09R-FJ
SEMICONDUCTORS ■■ MSWB ASSY [VWG2455] SWITCHES AND RELAYS A S301 VSA1005 OTHERS	HOLDEF	3	VNF1122		
SWITCHES AND RELAYS △ S301 SEMICONDUCTORS OTHERS	X101 (5MHz)	VSS1142	Thomas seed from	00455
© KEYB ASSY [VWG2460] SEMICONDUCTORS OTHERS	•				G2455]
SEMICONDUCTORS OTHERS					VOA4005
SEMICONDUCTORS OTHERS	G KEYB	ASSY [VWG24	60]	<u> </u>	VSA1005
DOSE PROSE			. 7	OTHERS	
SEED, SEED CINSUI CONNECTION FOR BZB-PH-K	D205, D206		SLR-343BBT	CN301 CONNECTOR POST	B2B-PH-K
D203, D204 SLR-343VC /\(\) CN302 AMP U-P CONNECTOR RKP1834	D203, D204		SLR-343VC		

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VSG1024

SWITCHES AND RELAYS S201-S203

5

POWER SUPPLY UNIT [VWR1375]

Mark No. **Description** Part No. **OTHERS**

AEK7063 AEK7066

 ⚠ P301 PROTECTOR(800mA)
 ⚠ P201 PROTECTOR(1.6A)
 ⚠ P101, P202 PROTECTOR(2A) AEK7067

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6. ADJUSTMENT

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6.1 ADJUSTMENT ITEMS AND LOCATION

Adjustment Items

[Mechanism Part]

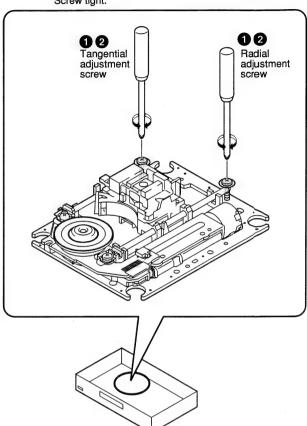
- 1 Tangential and Radial Height Coarse Adjustment
- 2 DVD Jitter Adjustment

[Electrical Part]

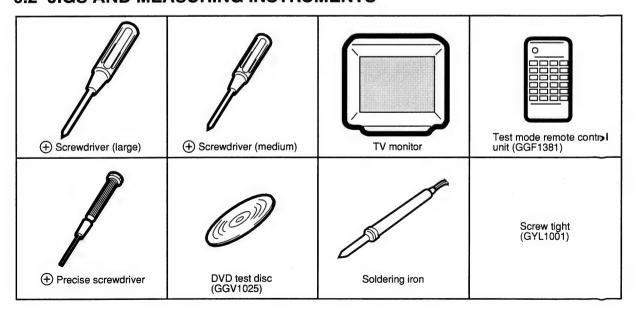
Electrical adjustments are not required.

Adjustment Points (Mechanism Part)

Cautions: After adjustment, adjustment screw locks with the Screw tight.



6.2 JIGS AND MEASURING INSTRUMENTS



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Exchange the Traverse Mechanism

3

■ Exchange Parts of Mechanism Assy

Exchange the Pickup

Mechanical point

* After adjustment, screw locks with the Screw tight.

Electric point

Mechanical point

Electric point

Exchange the Spindle Motor



Mechanical point

* After adjustment, screw locks with the Screw tight.

Electric point

Exchange PCB Assy

Exchange PC Board

LOAB and DVDM ASSYS



Mechanical point

Electric point

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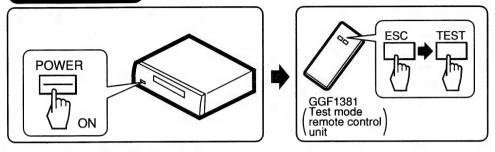
78

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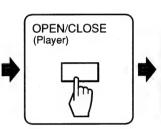
TEST MODE: ON



TEST MODE: DISC SET









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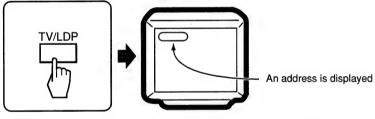
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TEST MODE: PLAY





CAUTION:

Perform only trace, video and audio outputs are nothing.

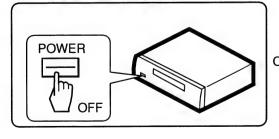
< When playback with the target address of disc (DVD)>

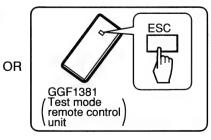
For example, when playback with # 30000



TEST MODE: OFF

5







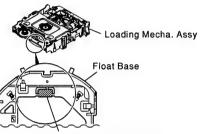
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6

1 Tangential and Radial Height Coarse Adjustment

START

Remove the Loading Mecha. Assy.
Remove a Spacer for height adjustment attached to the back side (shaded area) of the Loading Mecha. Assy (Float Base) with nippers.



Spacer for Height adjustment

Note:

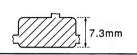
Before removing the flexible cable for the pickup, soldering of the pickup circuit is necessary.

For details, see "7.1.9 DISASSEMBLY".



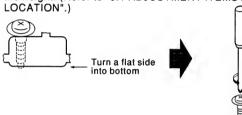
Cautions:

Keep spacer for future use. (used only for 2003 models)



Tanantial (or Radial) adju-

Put a spacer between a Tangential (or Radial) adjustment screw and Mechanism Base and turn each screw to adjust the height. (Refer to "6.1 ADJUSTMENT ITEMS AND LOCATION".)



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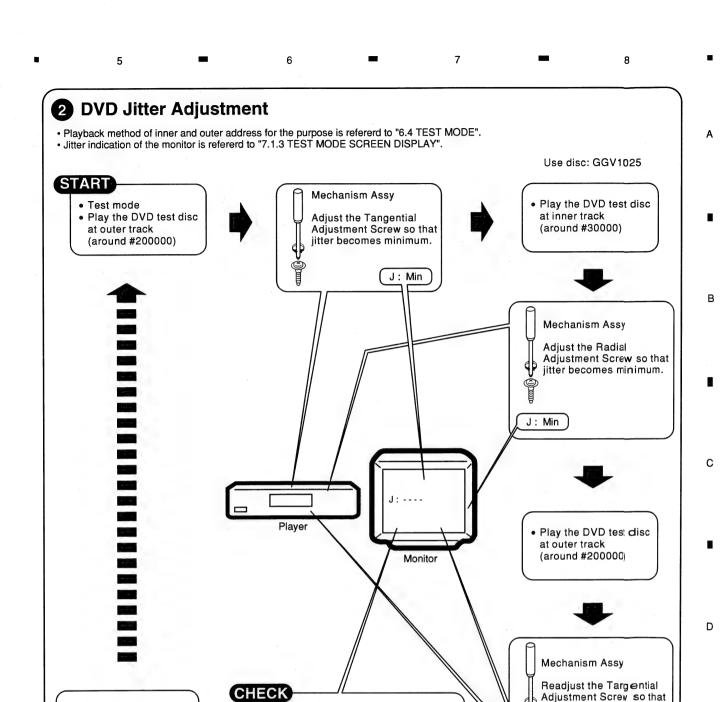
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Turn the POWER OFF in case of NG once, and perform the adjustment once again.

tangential and radial adjustment screws with the Screw tight.

Screw tight: GYL1001

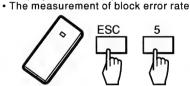
If error rate is OK, locks a root of

6 Disc playback normally.

Confirm the error rate that is

(Example ERROR RATE: 6.60e - 6 OK)

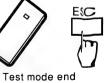
displayed "OK"







J: Min



jitter becomes mini mum.

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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 ID NUMBER AND ID DATA SETTING

Entering the ID Number and ID Data for Players with DVD-Audio and DVD-RW Compatibility

It is necessary with a player with DVD-audio and DVD-RW compatibility to set an individual number (ID number) and ID data. If the number and data are not set correctly with the following procedure, operations in the future may not be guaranteed. You will find the ID number to be set on the yellow label on the rear panel.

Important: If no yellow label is found on the rear panel, write down the specified ID number by checking it according to "How to confirm the ID number" shown below.

The Input is Necessary When:

• Downloading FLASH-ROM is finished. (The latest version must be downloaded when a repair is made.)

2

- "No ID Number" is displayed on the screen or FL display immediately after the power is turned on or in Stop mode.
- If "No ID DATA" is displayed, the ID data must be entered.

Note

Be sure to enter the ID number in Stop mode.

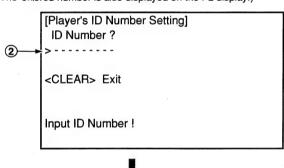
Use the service remote control (GGF1381) for operations. Only opening/closing of the tray are performed from the player. Use Disc No.: GGV1133

How to Input the ID Number and ID Data

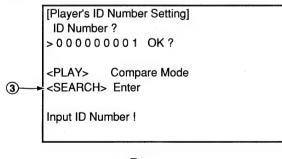
1 To enter the input mode, press SSC+STEREO in a status with no ID number set, such as after FLASH-ROM downloading.



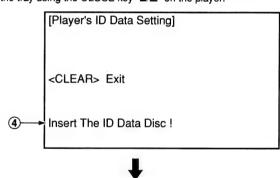
② As number input is enabled when the unit enters the input mode, input the 9-digit ID number. (The entered number is also displayed on the FL display.)



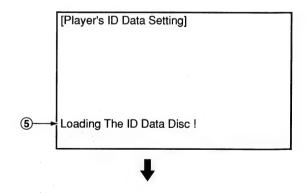
3 After inputting the number, press SEARCH to register the ID number.



(4) When the ID number has been registered, the unit enters the ID data input mode. (The FL display indicates "NO ID DATA.") In this condition, place the ID data disc on the tray and close the tray using the CLOSE key "■/▲" on the player.



(5) While the data are being read, the message shown in the figure at left is displayed on the screen. (The FL display indicates "RD ID DATA.")

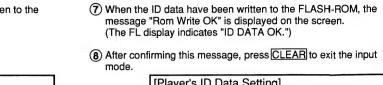


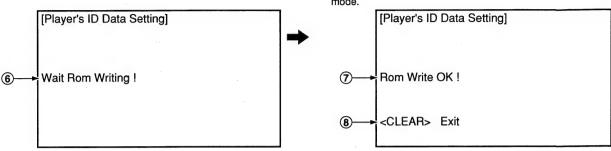
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(6) When the ID data have been read, the data are written to the FLASH-ROM.

(The FL display indicates "WR ID DATA.")

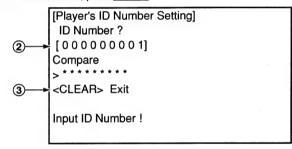
5





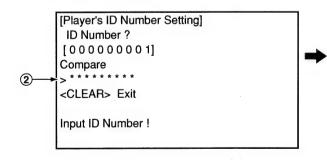
How to Confirm the ID Number

- 1) Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
- 2) The set ID number is displayed on the screen (and on the FL display), permitting you to confirm it.
- (3) To exit this mode, press CLEAR.

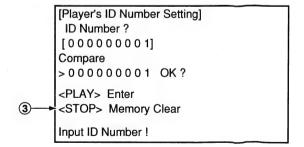


How to Clear the ID Number

- 1) Press ESC + STEREO with an ID number set, and the unit enters the ID number confirmation mode.
- 2 Input the same number as the ID number you have set.



3 After inputting the number, pressSTOP. Only when the entered number matches the set ID number, the ID number is cleared and the unit exits this mode. If the numbers do not match, you must return to step 2. (STOP) is not accepted until 9 digits are entered.)



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7.1.2 SELF-DIAGNOSIS FUNCTION OF PICKUP DEFECTIVE

This unit can confirm the laser diode current value (DVD: 650nm, CD: 780nm) of pickup on the Test Mode screen. (Press the $|\overline{ESC}| \rightarrow |\overline{TEST}|$ keys in order on the test mode remote control unit (GGF1381) to enter the test mode.)

It's effective in case of the following condition.

Symptom

- Indicates "No Disc" in FL display.
- · Player does not playback, etc..

Procedure of Self-Diagnosis

- 1) Enter the Test mode.
- 2 When diagnosing the 650nm laser diode:

Press the $\boxed{\text{TEST}} \rightarrow \boxed{1}$ keys in order, and turn on the laser diode (It light-up for nine seconds.).

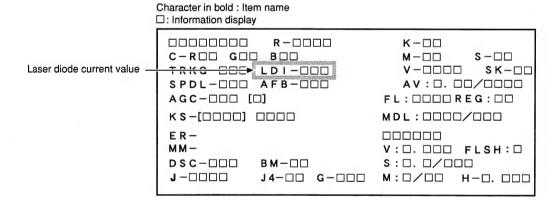
When diagnosing the 780nm laser diode:

Press the $\boxed{\text{TEST}} \rightarrow \boxed{4}$ keys in order, and turn on the laser diode (It light-up for nine seconds.).

```
When let it turn on once again after performed ② once, After pressed REP.B key once
650nm: Press the TEST → 1 keys in order
780nm: Press the TEST → 4 keys in order
```

- 3 Confirm the indicated value of the laser diode current (LDI). (Refer to following figure.)
- When indicated value is more than 140, pickup is defective. → Replacement is necessary Replace the Traverse Mechanism Assy or Pickup.

Note: When a DVD disc or a CD disc is played in the test mode, this function is effective.



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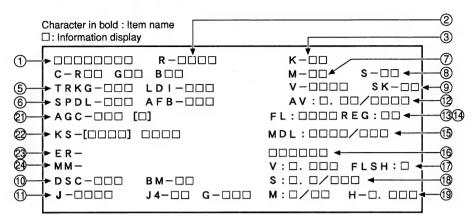
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7.1.3 TEST MODE SCREEN DISPLAY

■ Display Specification of the Test Mode



1) Address indication

The address being traced is displayed in number. (as for the DVD, indication of decimal number is possible.) DVD: ID indication (hexadecimal number, 8 digits)

[********

CD : A-TIME (min. sec.) [0 0 0 0 * * * *]

② Code indication of remote control unit [R - * * * *] In case of double code, display a 2nd code.

3 Main unit keycode indication [K - * *]

4 Background color indication [C - R** G** B**]

(5) (1) Tracking status [TRKG - * * *]

Tracking on : [ON] Tracking off : [OFF]

OFF

(2) Laser diode current value [LDI - * * *]

(6) (1) Spindle status [SPDL - * * *]

. , .	
Spindle accelerator and brake, free-running	[A/B]
FG servo	[FG]
Rough, velocity phase servo	[SRV]
Offset addition, rough, velocity phase servo	[O_S]
(2) AFB status [AFB - * *]	
ON	ION 1

Mechanism (loading) position value [M - * *]

Unknown : [01] or [41]
Open state : [04]
Close state : [08]
During opening : [12]
During closing : [22]

8 Slider position [S - * * * *]

CD TOC area : [IN]
CD active area : [CD]

Output video system [V - * * * *]

NTSC system : [NTSC]
PAL system : [PAL]
Automatic setting : [AUTO]

Scart terminal output [SK - * *]

(Display only the WY model which can do the output setting of scart terminal.)

VIDEO : [00] S-VIDEO : [01] RGB : [02]

(1) Disc sensing [DSC - * * *]

The type of discs loaded is displayed.
[DVD], [CD], [VCD], []

(2) CD 1/3 beam switch [BM - * *]

① Jitter value [J - * * * *]

Make the jitter four times, and renew it in every 05 second. [J4-**]

(2) Version of the AV-1 chip / version of firmware [AV: * * / * * * * * * * *]

(3) Version of the FL controller [FL: * * * *]

(4) Region setting of the player [REG: *]

Setting value: [1] to [6]

(5) Destination setting of the FL controller [MDL: * * * * / * * *]

Four characters in the front represent the type of no del. Three characters in the back represent the destinatorn code. J: /J, K: /KU, /KC, /KU/KC, R: /RAM/RL/RD, LB: /LB, WY: /WY

W Y:/W Y

[OFF]

(6) Part number of the flash ROM and system controller [* * * * * * / * * * * * *]

① Version of the flash ROM [V: *. * * *]
Flash ROM size [FLSH = *]

(8) Revision of the system controller [S: * . * / * * *]

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(9) (1) Revision of the DVD mechanism controller [M: */**]

(2) Part number of the GUI-ROM (OEM model)
[GUI: * * *]

(3) HOST conversion [HOST: * * *]

② AGC setting [AGC - * * * [*]]

AGC on: [AGC-ON] AGC off: [AGC-OFF]

1

[1]: RFAGC on [0]: RFAGC off

② FTS servo IC information

DSP coefficient indication [KS - [****] ****] Displays the address (four digits) of the specified coefficient and the setting value (four digits) with [TEST] and [9] keys.

② Error rate indication

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① C1 error value of CD [ER - C1 * * * *] ② C1 error value of DVD [ER - * * * * * * * *]

② Internal operation mode of mechanism controller [MM - * * : * *]

Internal mechanism mode (2 digits) and internal mechanism step (2 digits) of the mechanism controller

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7.1.4 SELF-DIAGNOSIS FUNCTION

When enter the service mode, self diagnosis mode operates with the "ESC"+"CHP/TIM" keys automatically.

① Mechanism Error History (past eight times of error is displayed)

Two columns of the beginning display the error status for mechanism controller.

(the details of error contents refer to "7.1.6 Error Display".)

Eight columns of the back display the count UP value (turned count up every 20msec) from the power-up.

Example) 32h ≒ 1 sec, BB8h ≒ 1 min, 2BF20h ≒ 1 hour

In addition, when there was error after power-up immediately (till initial setting is completed), turn the most significant bit to ON.

2 Check Item Display of Self Diagnosis Function

```
a) AV1 Host Bus check (possible the check only during stop) (Read & Write process of an internal specific register)
```

AV_1 : OK

⇒ not yet check

: HOST BUS NG ⇒ HOŚT bus NG

b) Bus check between AV1 SDRAM (possible the check only during stop) (Read & Write process to the SDRAM)

AV_2 : OK

⇒ not yet check

: AV1-SDRAM BUS NG => Bus NG between AV1 and SDRAM

c) DMA transfer port check from F.E. to AV1 (during stop, possible the check only in DVD or NO DISC)

(writing from F.E to SDRAM and reading of SDRAM)

AV_3 : OK

⇒ not yet check

: FE-AV1 DMA NG

⇒ Bus NG between F.E and SDRAM installed outside of AV1

d) Video encoder (ADV****) check (Read of the specific register)

۷E :OK

: NG ADV.

⇒ ADV register reading NG

> ADV : NG

⇒ ADV communication NG of FR to video encoder

> PRO ⇒ Communication NG from EBY to progressive decoder : NG

e) DSP check (Read of the specific register)

:OK : NG

⇒ DASP NG

f) SACD check (Read of the specific register)

SACD : OK

: NG

⇒ SACD NG

g) 1394 relation HOST controller check

HOST : OK

: NG ⇒ HOST controller NG

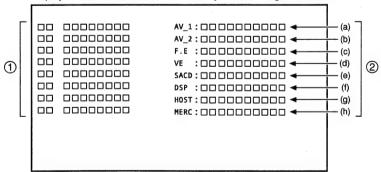
h) 1394 relation Mercury CHIP check

MERC: OK

: NG ⇒ Mercury CHIP NG

Display the mechanism error history and self diagnosis result by pressing the "CHP / TIM" key once again. Afterwards press the "CHP / TIM" key with toggle and change the display.

Display screen of mechanism error history and self diagnosis result



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• FL indication of EDC / ID error (short cut function)

Indicate it in FL with the "ESC"+"CX" keys (LD remote control unit). Indication is released with the "ESC" key during display.

FL indication contents



Indicate number of the location that caused EDC and ID errors

Retry number of times at having caused ID error (error is indicated only in the occurring moment) Retry number of times of the latest ID error in the ST system

Retry number of times at having caused EDC error (error is indicated only in the occurring moment) Retry number of times of the latest EDC error in the ST system

* Mark: When even once causes AV1 error, lights.

· Screen display of the service mode

Indicate to the screen with the "ESC"+"CHP/TIM" keys. Release the indication with the "ESC" key. Indication contents

1 ID Address

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② DVD in playback: Error rate regular indication and exponent indication

CD/VCD in playback indicates the number of correct frame of C1 error /5 seconds.

Self diagnosis indication

Indicate the self diagnosis result whether the F.E is normal.

Self Check : During FE checks

Self Check OK Abnormality is not found in F.E. Self Check Error : Abnormality is found in F.E.

Indicate the mechanism error history and self diagnosis result

by pressing the "CHP / TIM" key once again.

Afterwards press the "CHP / TIM" key with toggle and change the display.

Indication of the mechanism error history and self diagnosis result refer to "7.1.4 self diagnosis function".

4 Error information indication of the AV decoder

D

When a retry occurred in reading from the disc, a history indicates the occurrence location and the occurrence reason. History is indicated to past seven times.

Eight columns of the beginning show the physical address which occurred of retry.

As for four columns of next, bitmap indicates EDC status. LSB

shows the first sector during a block and MSB shows a last sector

Following field indicates the retry number of times. One digit in front of " / " shows number of times of the retry by EDC Error which occurred in the same block in succession.

One digit after " / " shows number of times of the retry by ID Check Error which occurred in the same block in succession. of last one digit shows the EDC Check NG Count Over.

" # " shows the ID Check NG Count Over.

When " * " and " # " are not indicated, show that data were rightly readable by retry process.

Indicate the error information that detected with the Audio/Video Decoder. When error occurred, a history indicates the occurrence time and the occurrence reason. History is indicated to past seven times.

Field in front of ":" indicates the error information of Audio/Video Decoder.

(Indication information is different from Fujitsu Decoder with Mitsubishi Decoder)

02 model is 656 series and 757 series is Mitsubishi model.

• Specification for the Audio/Video Decoder (M65773FP) model of Mitsubishi

bit7: VLD Fatal Error detection

bit6: VLD Not Fatal Error detection

bit5: Number of Macro Block mismatch

bit4: Decode error

bit3: VLD Sequence Layer Fatal Error detection

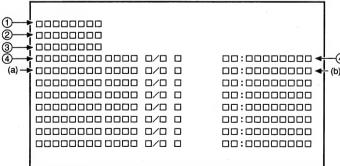
bit2: VLD Picture Layer Fatal Error detection bit1: VLD Slice Layer Fatal Error detection

bit0: Start-up Sequence Time-out Error detection Following field in ": " indicates a value of STC (System Time Clock) which detected the above Audio/Video Decoder error.

* When often perform the switch of debug screen, an error history will be increased.

As for this, CPU power is used for update of OSD drawing, symptoms occur so that control of VBR Buffer is not in time.

Indication contents



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Error codes that are displayed on the FL display without using the remote control unit

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FL Display	Possible causes	Operation of the unit
AV1 VER	AV-1 chip is not a match with the program of system controller	The sound may not out with the specific audio.
CPU AERR	CPU address error (Hardware is unusual.)	No operation
DMA AERR	DMA address error (Hardware is unusual.)	No operation
FLASH ID	Difference in versions of the internal ROM of the system controller and of the flash ROM, or bus line failure or reverse installation	No operation
FLASH WRP	Write protect error of the flash ROM	No operation
FLASH SIG	Difference in part number of the flash ROM (When the ROM which could't be used was used.)	No operation
FLASH SUM	Check sum error of the flash ROM (It exceeds the regular size.) or reverse installation (Hardware is unusual.)	
FLASH SIZ	Size error of the flash ROM (Use 4 or 8 M-bit.)	No operation
GUI ROM ERROR	Difference in version of GUI ROM and system controller software.	Operate as the OSD model
ILLGAL	The system controller fetched a code other than an operation code (Hardware is unusual.)	No operation
MECHA CPU	Difference in version of the internal ROM of the mechanism controller and of the flash ROM.	No operation
RESERVE	Undefined interrupt (Hardware is unusual.)	No operation
SLOT	Inappropriate slot command issued (Hardware is unusual.)	No operation

Error codes that are displayed on the FL display by using the remote control unit

(Mechanism controller error)

To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of center of the FL display

To display the error history: ESC + DISPLAY + One shot; Location of the display: TV screen

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
11	Search timeout	Search could not be complete within 7 seconds.	Search could not be complete within 7 seconds, and it could not enter the target area within 7 seconds by VCD scan.	CD : Stops, DVD: Continues operation
12	Search retry error	More beyond the target while the read-in s be completed after 3 retries while the unit v be completed after retry when timeout occ	earch was converging. A search could not was tracing 11 tracks. A search could not urs at read-in.	CD: Stops, DVD: Continues operation
19	Tracing timeout while converging	Timeout (10.5 seconds) while tracing at the stage of convergence of a search.		Stop
1B	Index 0 search error		During Track (Index) Search, the search for the beginning of a program could not be completed within 3 seconds (20 seconds in the case of Index Search) after positioning based on the TOC data was completed.	Stop
1C	Embossment plunge error (only a model corresponding to RW)	Plunged into unreadable embossment of DVD-RW player.		1. In wobble nothing (error distinction): search to address 2E400h 2. In wobble existence: Tray open
22	Timeout of slider inner circumference	Inside switch could not ON within 3 second	ds.	Stop
23	Timeout of slider outer circumference	Inside switch could not OFF within the following times: at ATB: 2 seconds, at Backup: 2 or 2.02 seconds.		Stop
33	No FOK pulse during playback	When the focus was deviated continuously 20 times.		Adjusts focus at the innermost circumference and tries to return to its position where the error was generated (for 3 times), then opens. If the same error pers ists after one retry, the tray opens. (No FOK pulse)
38	Disc-type- sensing error	Were not able to playback from the disc dis PLAY or STOP was not completed by back Distinguished it from the blank disc in the A	kup operation of the disc distinction.	Open

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FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
39	SGC converge timeout	SGC could not converge during detects the peak	·	Open
41	Spindle timeout	The unit did not enter Stop mode within 10 seconds of in Disc distinction is not completed even if passes for 10 s	ssuance of a Stop command. seconds after the spindle turned.	Stop
48	Spindle FG transition timeout	Did not reach to the rotating speed that ATB was possible for less than 10 seconds. Did not reach aim CAV lock speed (high: 10%, low: 50%) for less than 10 seconds. CAV process passed more than 5 seconds or abnormal speed was detected. Spindle does not lock for less than 3 seconds in the BCA read start or end.		Stops. (FG timeout)
49	Spindle PLL transition timeout	CAV process passed more than 5 seconds. Abnormal s	speed was detected.	Stops. ("73" is displayed during starting process.)
4A	Spindle lock timeout	Spindle could not lock more than 1.5 seconds before st	art the AFB.	Stops. ("73" is displayed during starting process.)
51	Auto sequence timeout of peak detection	ABUSY did not return within 1 second after the DDTCT (peak detection) command was sent.		Stop
52	Auto sequence timeout of focus jump down	ABUSY did not return within 30 mS after the FJMPD (Focus jump 1 to 0) command was sent.		Open
53	Auto sequence timeout of focus jump up	ABUSY did not return within 30 mS after the FJMPU (Focus jump 0 to 1) command was sent.		Open
54	Auto sequence timeout of play AGC	ABUSY did not return within 50 mS after the GSUMON (play-AGC-measuring) command was sent.		Stop
55	Auto sequence timeout of disc-type- sensing	ABUSY did not return within 2 seconds after the DJSRT (disc-sensing) command was sent.		Stop
56	Auto sequence timeout of ATB2	ABUSY did not return within 1 second after the TBLOFS (Internal ATB after the completion of external ATB) command was sent.		Stop
57	Auto sequence timeout of tracking servo ON	ABUSY did not return within 0.5 sec. after the TSON (tracking servo ON) command was sent.		Stop
58	Auto sequence timeout of ATB1	ABUSY did not return within 0.2 sec. after the TBL (external ATB) command was sent.		Stop
59	Auto sequence timeout of focus gain adjustment	ABUSY did not return within 2 seconds after the FGN (focus gain adjustment) command was sent.		Stop
5A	Auto sequence timeout of tracking gain adjustment	ABUSY did not return within 2 seconds after TGN (tracking gain adjustment) command was sent.		Stop
5B	Auto sequence timeout of offset adjustment	ABUSY did not return within 1 second after the AVE (offset adjustment) command was sent.		Stop
5C	Auto sequence timeout of modulation factor measurement	ABUSY did not return within 200 mS after the ADJMIR (modulation factor measurement) command was sent.		Stop
5D	Auto sequence timeout of auto focus bias	ABUSY did not return within 2 seconds after the AFB (auto focus bias) command was sent.		Stop
5F	Auto sequence already busy	A command could not be sent because ABUSY was low. ABUSY did not return within 200 mS after TLV command was sent.		Stop
62	Pause retry error	Pause mode could not be restored within three retries after it had been released.		Continues operation
71	ID reading check during playback	An ID could not be read for 1 second or more.		Stop
72	Subcode check failure during playback		No frame could be read for 3 seconds or more.	Stop
73	ID can not read during startup	An ID could not be read within 1 second after the AFB tracking on.		Opens (ID readout failure)

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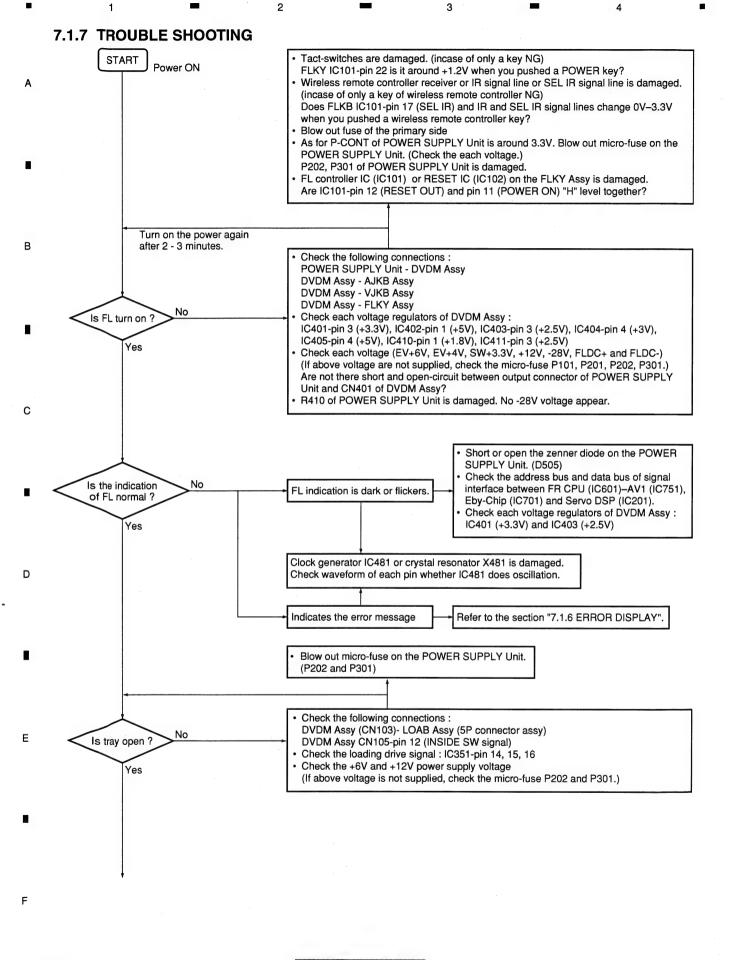
FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Unit
74	Subcode check failure during startup		Subcode could not be read within 1 second after the tracking on.	Opens (Subcode readout failure).
A1	Communication timeout of DSP command	A command could not be issued to DSP because Command Busy (XCBUSY) was in force (XCBUSY = L) for a specified time (about 200 μ S).		Open
A2	Communication timeout for reading DSP coefficient	Command Busy (XCBUSY) was in force for a specified time (about 200 μ S) before and after a coefficient read command was issued to DSP, or the address echo-back after command issuance did not match the setup address.		Open
A4	Communication timeout for continuously writing DSP coefficient	Command Busy (XCBUSY) was in force for 200 μ S during continuous coefficient writing, or before and after a continuous write command was issued to DSP.		Open
B1	Timeout error for backup	In the backup sequence, codes could not be read	for fixed time.	Stops
B2	Retry error for backup	Cannot close tracking even if performs backup fix	ed number of times.	Stops
ВЗ	Retry error for trace	During tracing, do not restore after the runaway deseveral times.	etection backup was performed	Stops
СЗ	Detection of tracking overcurrent	During playback, the overcurrent detection port was continuously.	Stops (the mechanical controller operates independently).	
(C5)	Short-circuit test corresponding error	After the overcurrent detection (C3 error), furthern was at L for 300 mS or more continuously.	Turns off the power instantly (No indication on the FL display and no writing to flash memory)	
F5	Tray being pushed	The tray switch that had been Open mode was for than Open by an external force.	rcibly changed to a mode other	Closes
F6	Code reading NG		(PH code nothing) When Philips code is not readable during LD starting, and a code was not readable after the slider moved to FWD and REV directions slowly each for five seconds. (PRD) In the CD starting, when a subcode of TOC part was not readable, but the subcode of the program area was readable.	Search, scan and special playback prohibition, Playback as playback CD-R (PRD mode) as it is.
F8	Loading timeout	Loading or unloading could not be completed within a specified time (about 10 seconds). Though a portable cover is opening, when a close command was issued from the system controller.		Reverses the leading direction. It timeout is repeated upon retry, the unit stops.
FC	Focus	 Focus ON sequence could not be completed more than two seconds. Auto sequence command was finished, actually focus ON was not completed. Focus did not enter even if retried it eight times. 		Stops wherever possible then opens (stops in the case of side B).

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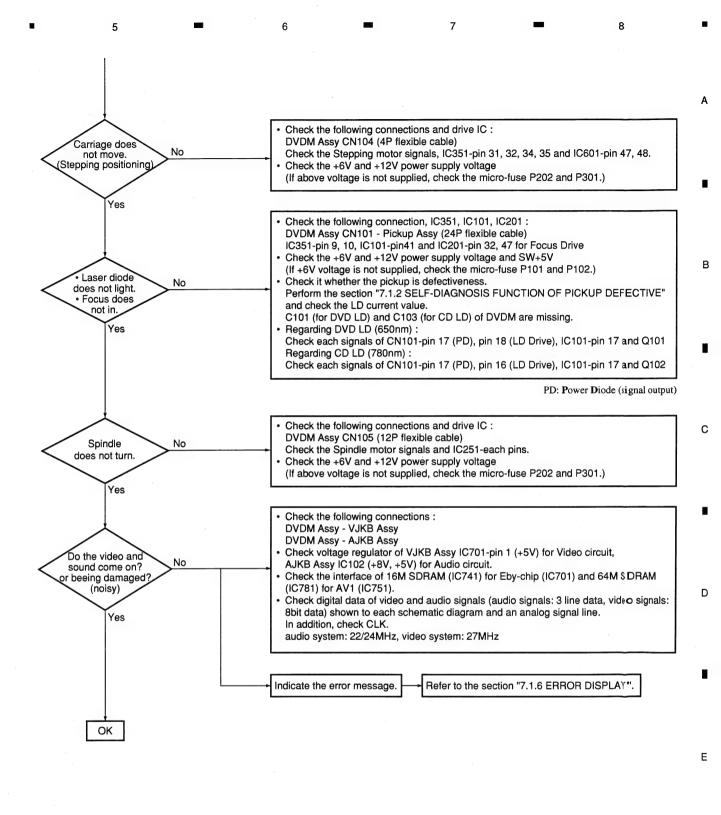
Error codes that are displayed on the FL display by using the remote control unit (Device error) To display: ESC + DISPLAY + DISPLAY; Location of the display: At the two digits of left of the FL display

FL	Description of Error	Causes if with a DVD	Causes if with a CD	Operation of the Un it
bit4=1 10 etc.	Mechanism controller RAM check sum error			
bit3=1 08 etc.	AV1 access error (read, write NG)			No operation or it becomes debugging indication if the power is able b CN.
bit2=1 04 etc.	LSI11 access error			
bit0=1 01 etc.	SRAM access error			

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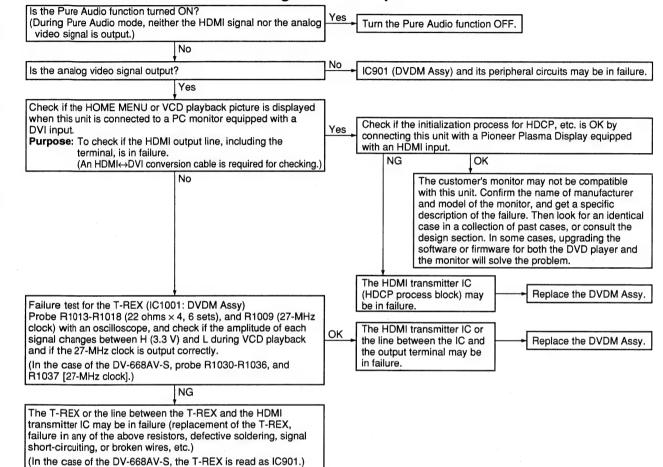
DV-59AVi

7.1.8 FAILURE-TEST METHOD FOR THE HDMI TRANSMITTER IC

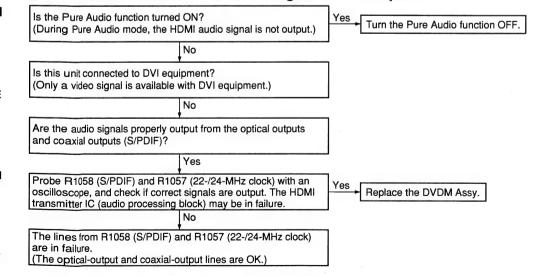
• As replacement of the HDMI transmitter IC (IC1051: DVDM Assy) is not possible, because the connection between the IC and the HDMI out terminal is sealed with silicon adhesive, the DVDM Assy needs to be replaced if the IC is in failure.

When replacing the DVDM Assv. see "7.1.9 DISASSEMBLY."

In a case where the HDMI video signal is not output



2 In a case where the HDMI audio signal is not output



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Note 2: For performing the diagnosis shown below, the following jigs for service are required:

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• GGF1157 • GGF1430

Diagnosis of the PCBs

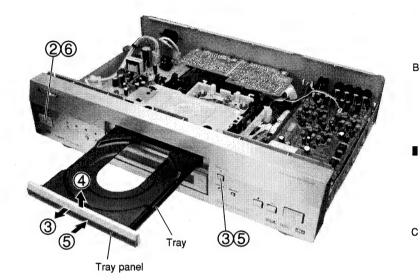
7.1.9 DISASSEMBLY

1 Bonnet and Tray Panel

Remove the bonnet by removing the nine screws. (for DV-59AVi and DV-868AVi-S)

Remove the bonnet by removing the five screws. (for DV-668AV-S)

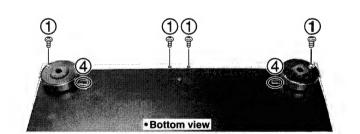
- Press the STANDBY/ON button to turn on the power.
- 3 Press the ≜ button to open the tray.
- 4 Remove the tray panel.
- Solution 1 = 5 Press the button to close the tray.
- Press the U STANDBY/ON button to turn off the power.

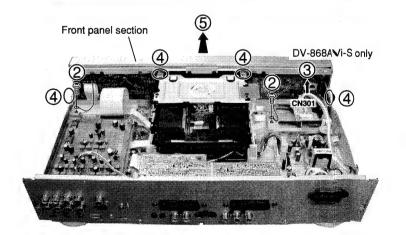


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2 Front Panel Section

- 1 Remove the four screws.
- Remove the two earth lead by removing the two screws.
- 3 Disconnect the one connector. (DV-868AVi-S only)
- 4 Remove the six hooks.
- (5) Remove the front panel section.





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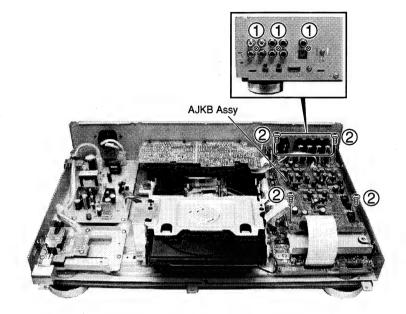
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3 AJKB Assy

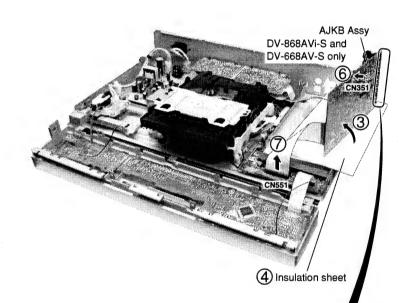
- Remove the three screws.
- A 2 Remove the four screws.

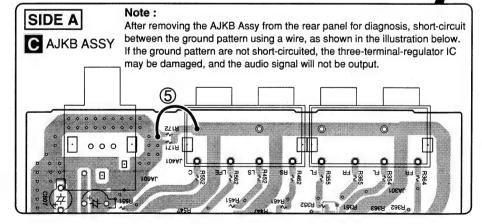


- Remove the AJKB Assy and stand it against the other parts.
 - 4 Insert the insulation sheet.
 - (5) Short-circuit the pattern.

▼Diagnosis

- (DV-868AVi-S and DV-668AV-S only)
- Disconnect the one connector.





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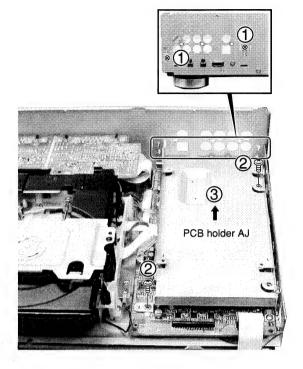
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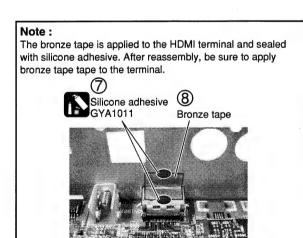
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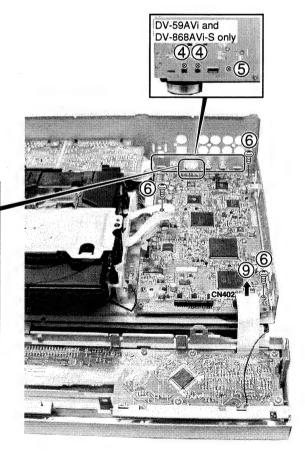
- 1 Remove the two screws.
- 2 Remove the two screws.
- Remove the PCB holder AJ.

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- Remove the two screws. (DV-59AVi and DV-868AVi-S only)
- (5) Remove the one screw.
- 6 Remove the three screws.
- Remove silicone adhesive.
- 8 Peel off the bronze tape.
- Disconnect the one connector.





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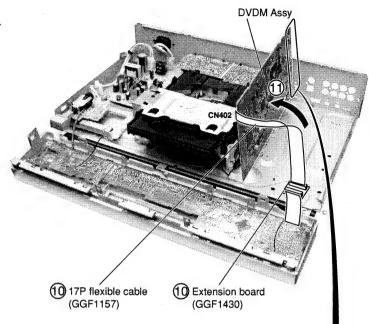
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① Connect the 17P flexible cable and the extension board.
① Remove the DVDM Assy and stand it against the

other parts.

12 Short-circuit the two patterns.





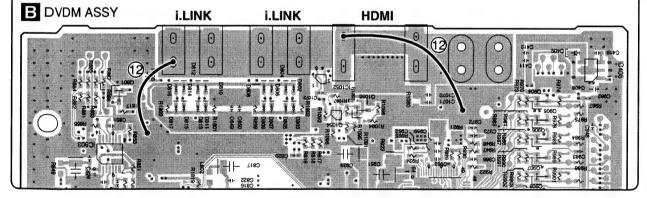
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After removing the HDMI and i.LINK terminals from the rear panel for diagnosis, short-circuit between the ground patterns using a wire, as shown in the illustration below. If the ground patterns are not short-circuited, both the ICs for input and for output may be damaged.

SIDE B



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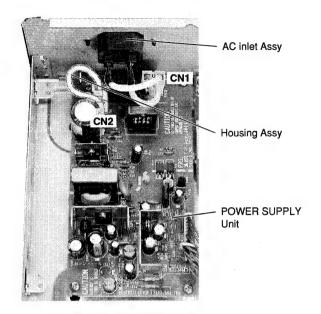
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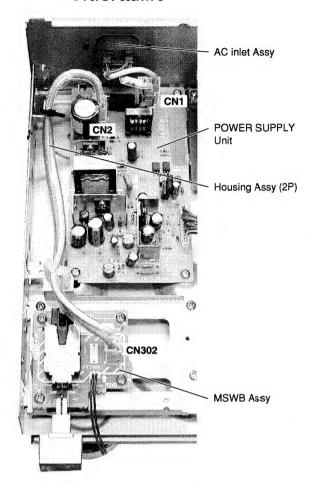
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● Connection Diagram of Housing Assy

● For DV-59AVi and DV-668AV-S



● For DV-868AVi-S



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5 LOADING MECHA. Assy

1 Short-circuit two points of C and D by soldering.

Note: After replacement, connect the flexible cable, then remove the soldered joint (open).

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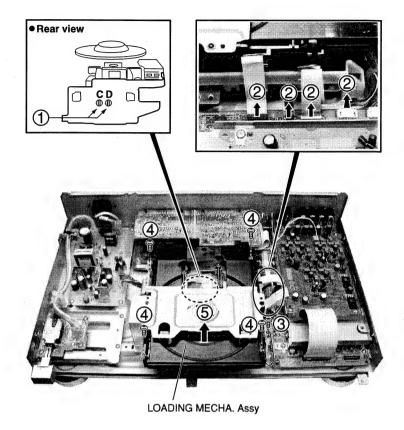
- ② Disconnect the four connectors.
- 3 Remove the earth lead by removing the one screw.
- 4 Remove the four screws.

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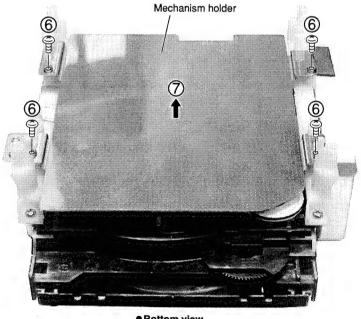
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(5) Remove the LOADING MECHA. Assy.



- 6 Remove the four screws.
- Remove the mechanism holder.



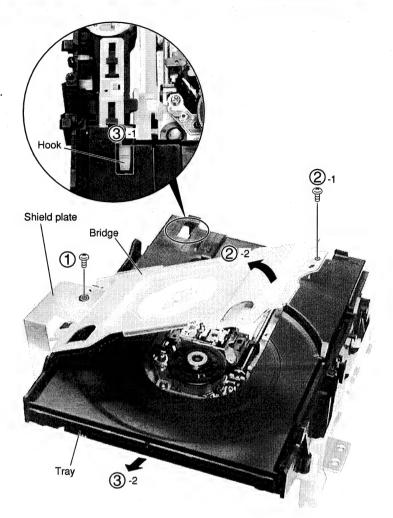
Bottom view

Removing the Traverse Mecha. Assy-S and Pickup Assy-S

1 Bridge and Tray

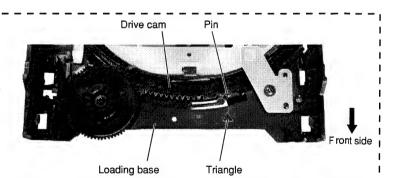
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- 1 Remove the shield plate by removing one screw.
- 2 Remove the bridge by removing the one screw.
- 3 Pull out the tray, then remove it by pressing the hook.



Note when reinserting the tray

I When reinserting the tray, first align the triangle I printed on the loading base and the pin of the drive I cam, then insert the tray.



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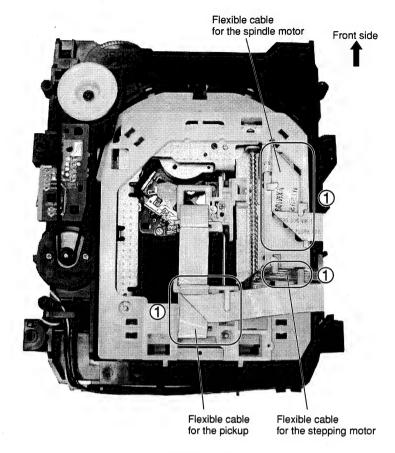
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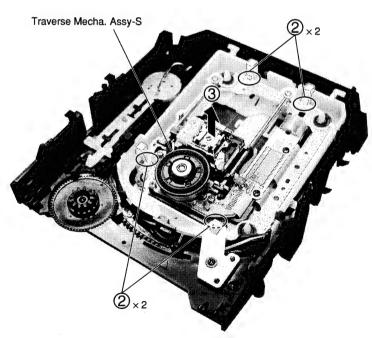
① Dislodge the flexible cables from their factory placement.



Bottom view

3 Remove the Traverse Mecha. Assy-S.

2 Remove the four hooks.



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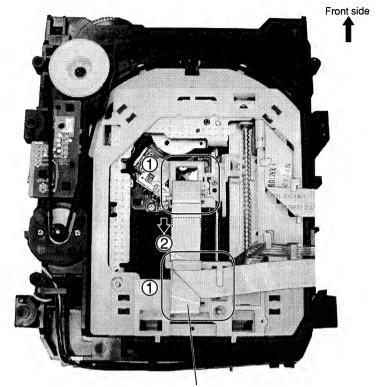
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Note: The Pickup Assy-S can be removed without removing the Traverse Mecha. Assy-S. (shown as Step 2.)

- ① Dislodge the flexible cable for the pickup from its packaged placement.
- 2 Remove the flexible cable for the pickup.



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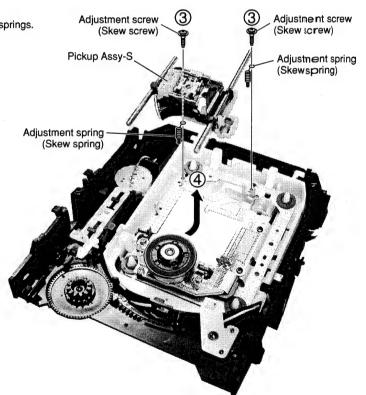
Flexible cable for the pickup

Bottom view

3 Remove the two adjustment screws and two adjustment springs.

4 Remove the Pickup Assy-S.

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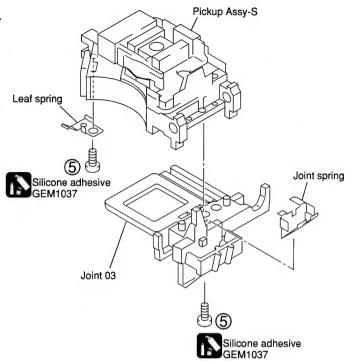


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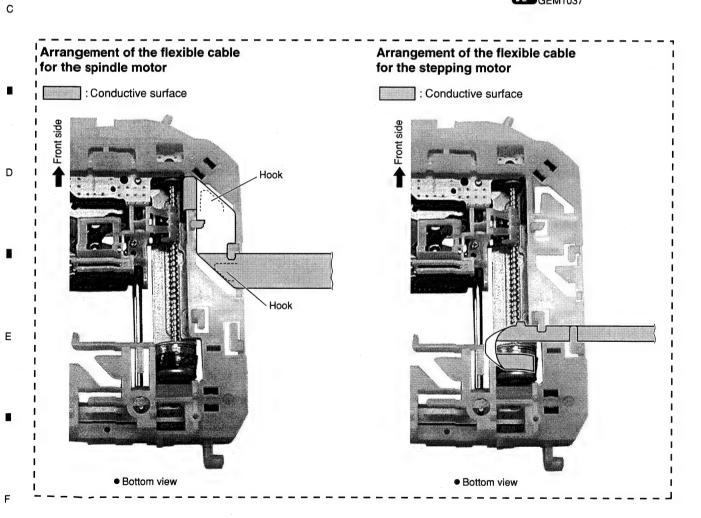
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Note: The screws are secured with the silicone adhesive. Make sure to apply the silicone adhesive after reattaching the screws.

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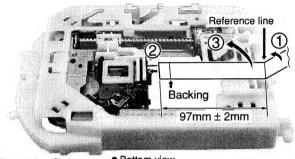
Arrangement of the flexible cable for the pickup

: Conductive surface

Note:

Be sure to move the Pickup Assy-S to the innermost perimeter.

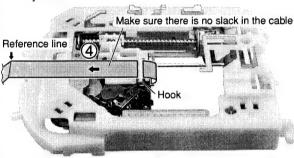
- Told the flexible cable inward at the position of the reference line.
- \bigcirc Attach the flexible cable of the pickup to the connector.
- 3 Fold the flexible cable of the pickup with the backing inward.



Front side - Bottom view

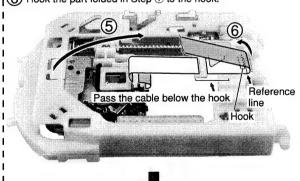


Pass the flexible cable through the hook not allowing any slack.

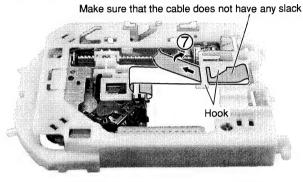




- 5 Fold the flexible cable as indicated in the photo.
- 6 Hook the part folded in Step 1 to the hook.



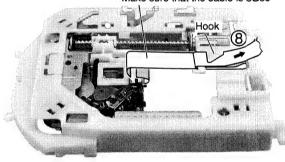
Pass the flexible cable below the hook, and fold it back.



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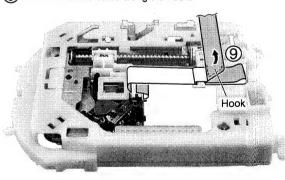
8 Fold the flexible cable back at the hook.

Make sure that the cable is loose





9 Fold the flexible cable along the hook.



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7.2 IC

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.
- · List of IC

LA9704W, LC78652W, BA6664FM, SM8707HV, PD6345A, M65776BFP, PCM1738EG-3, LA73054, CXD2753R, PE5314B, PE5286A, PD0274A, ADV7314KST, ADV7310KST, TSB43CA42GGW, PD5787A, CD0040AF

- LA9704W (DVDM ASSY : IC101)
 - RF IC

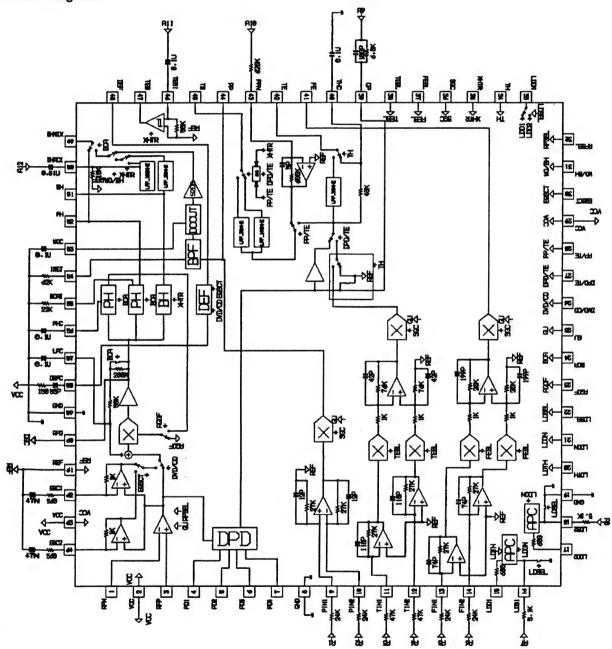
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Block Diagram



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Pin Function

No.	Pin name	Pin Functions
1	RFN	RF- input
2	VCC	Power supply terminal (for DPD)
3	RFP	RF+ nput
4	PD1	Pickup signal input
5	PD2	
6	PD3	
7	PD4	
8	GND	Ground (for DPD)
9	PIN1	— Pickup signal input
10	PIN2	
11	TIN1	
12	TIN2	
13	FIN1	
14	FIN2	
15	LDD1	APC1 output
16	LDS1	APC1 monitor input
17	LDD2	APC2 output
18	LDS2	APC2 monitor input
19	GND	Ground (Servo system)
20	LDTH	APC1 threshold change (H: VCC-1.5V, L: 180mV)
21	LDON	Laser ON terminal (H: ON)
22	LDSEL	APC change terminal (H: APC1)
23	AGOF	RFAGC off terminal
24	BCA	PH electric discharge coefficient change (H: BCA mode)
25	GU	RF, Servo signal gain up terminal (H: Gain up)
26	DVD/CD	RF- equalizer band change terminal (H: DVD)
27	DPD/TE	TE output change terminal (H: DPD)
28	PP/TE	TS output change terminal (H: PP)
29	vcc	Power supply terminal (Servo system)
30	EQSCT	EQ change for CD (H: 62 pin choice)
31	WO/BH	BHMIX output change terminal (H: WOBLE)
32	RFSEL	RF amplifier gain change (H: 6dB up)
33	LDDM	LDD monitor terminal
34	TH	Tracking hold (H: hold)
35	XHTR	Tracking, Bottom band change (L: High bandwidth)
36	SGC	Servo gain control terminal (FE, PP, TE)
37	FEBL	FE balance adjustment terminal
38	TEBL	TE balance adjustment terminal
39	СР	Resistance for charge pump gain setting, a condenser connection terminal
40	THC	Volume connection terminal for tracking hold
41	FE	Focus error output
42	TE	Tracking error output
43	PPN	Ohms connection terminal for push-pull gain setting
44	PP	Push-pull output terminal

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Pin name Pin Functions No. 45 TS Tracking cross signal output 46 TESI TES comparator input terminal 47 TES TES output DEF 48 Deffect search 49 BHMIX PH, BH, woble change output BHACI BH- AC input вн 51 RF bottom detection output 52 PH RF peak detection output woc Volume connection terminal for DC cut 53 ISET Ohms connection terminal for BPF center frequency setting В 55 BCAI Ohms connection terminal for peak hold detection fixed number setting (In BCA) 56 PHC PH detection condenser connection terminal for RF-AGC LPC 57 Condenser connection terminal for RF DC servo 58 DEFC Volume connection terminal for deffect search GND 59 Ground (RF system) RFO 60 RF output terminal Reference output terminal 61 REF 62 EQC1 Equalizer setting terminal for CD 63 VCC Power supply terminal (RF system) С

Equalizer setting terminal for CD

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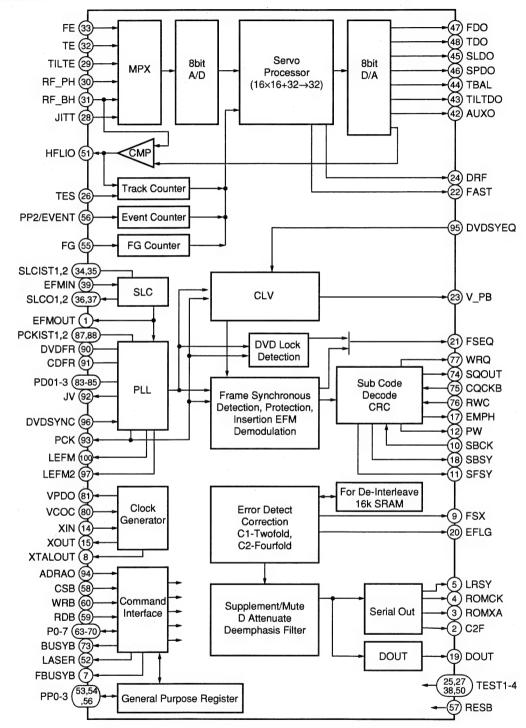
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■ LC78652W (DVDM ASSY : IC201)

Servo DSP IC

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Block Diagram



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Pin Function

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No.	Pin Name	I/O	Pin Function			
1	EFMOUT	0	Output the state that was binary-stated value EFM			
2	C2F	0	C2 flag output			
3	ROMXA	0	CD-ROM data output			
4	ROMCK	0	Shift clock output for CD-ROM data output			
5	LRSY	0	L/R clock output for CD-ROM data output			
6	PP3	1/0	General-purpose port input/output / DVD sync. signal input N ch-OD output			
7	FBUSYB	0	Busy signal output of DSP process operation N ch-OD output			
8	XTALOUT	0	External system clock output			
9	FSX	0	CD 1 frame sync. signal output			
10	SBCK	1	Subcode reading out clock input			
11	SFSY	0	Frame sync. signal output of subcode			
12	PW	0	Subcode P, Q, R, S, T, U, V and W output			
13	vss	† -	GND pin			
14	XIN	1	Connect a crystal resonator (16.9344MHz)			
15	XOUT	0	Connect a crystal resonator			
16	DVDD1		3.3V power supply of the oscillation circuit			
17	EMPH		Monitor pin of the deemphasis			
18	SBSY	0	Sync. signal output of the subcode block			
19	DOUT	10	Audio ElAJ data output			
20	EFLG	10	Error correction state monitor of the error correction C1 and C2			
21	FSEQ	0	Detection monitor of the CD/DVD frame sync. signal			
22	FAST	0	Playback speed monitor N ch-OD output			
23	V_PB	10	Monitor output of the rough servo/CLV control			
24	DRF	0	In focus monitor			
25	TEST3	H	Test input 3			
26	TES	H	Tracking error signal input			
27	TEST2	+-	Test input 2			
28	JITT	H	Jitter quantity detecting signal input of EFM PLL			
29	TILTE	+	Tilt error signal input			
30	RF_PH	+	RF peak hold signal input			
31	RF_BH		RF bottom hold signal input			
32	TE	+	Tracking error signal input			
33	FE	ti	Focus error signal input			
34	SLCIST1	+-	Current setting pin 1 of the constant current charge pump for SLC			
35	SLCIST2	-	Current setting pin 2 of the constant current charge pump for SLC			
36	SLC01	0	Control output 1 for SLC			
37	SLC02	0	Control output 2 for SLC			
38	TEST1	+-	Test input 1			
	EFMIN	H	EFM/EFM + input			
	AVDD	 	5V power supply of A/D and D/A for servo			
	AVSS	+-	GND of A/D and D/A for servo			
	AUXO	6	DA auxiliary output			
	TILTDO	10	Tilt control signal output			
	TBAL	0	Tracking balance control signal output			
	SLDO	10	Sled control signal output			
	SPD0	0	Spindle control signal output			
	FDO	0	Focus control signal output			
	TDO	0	Tracking control signal output			
	VREF	+-	Reference level of D/A for servo			
	TEST4	+-	Test input 4			
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No.	Pin Name	1/0	Pin Function			
	HFLIO		Mirror detection signal input/output			
	LASER	0	Output pin for laser ON/OFF control			
	PP0/DVD_CDB	1/0	General-purpose port input/output / Disc discrimination signal output			
	PP1/CRCERRB	1/0	General-purpose port input/output / Subcode CRC result signal output			
	FG	1/0	FG counter input			
	PP2/EVENT	1/0	eneral-purpose port input/output / Event counter input			
	RESB	1/0				
			Reset input			
	CSB	<u>'</u>	Chip select input			
	RDB	-	Internal state reading signal input			
	WRB	1	Command / data writing signal input			
	DVDD2	-	5V power supply			
62	VSS	_	GND			
63	P0					
	P1					
65	P2					
66	P3	1/0	Command / data input/output			
67	P4	"] "	Communa / add mporospot		
68	P5					
69	P6					
70	P7					
71	VSS	-	GND			
72	DVDD1	-	3.3V power supply for internal			
73	BUSYB	0	Busy signal output of command process			
74	SQOUT	0	Serial output of subcode Q			
75	CQCKB	ı	Shift clock input for subcode Q data output			
76	RWC	ı	Update permission input of subcode Q			
77	WRQ	0	Read out ready monitor of subcode Q			
78	AVSS	_	PLL GND for internal system clock			
79	VRPFR	_	VCO oscillation range setting of PLL for system clock			
80	vcoc					
	VPDO	0	Connect a PLL filter for system clock			
	AVDD	-	PLL 5V power supply for system clock			
	PDO1		PLL filter connection pin 1 for EFM playback			
	PDO2		PLL filter connection pin 2 for EFM playback			
	PDO3		PLL filter connection pin 3 for EFM playback			
	AVSS	-	PLL GND for EFM playback			
	PCKIST1	<u> </u>	Current setting 1 of PLL constant current charge pump for EFM playback			
	PCKIST2	<u> </u>	Current setting 2 of PLL constant current charge pump for EFM playback			
	AVDD		PLL 5V power supply for EFM playback			
	DVDFR	<u> </u>	VCO oscillation range setting of PLL for EFM playback 1			
	CDFR		VCO oscillation range setting of PLL for EFM playback 2			
91 92		-	Jitter output of PLL clock for EFM playback			
	PCK	0				
		0	Bit clock output for EFM playback			
	ADRAO		Address input			
	DVDSYEQ		DVD synchronize pulse input			
	DVDSYNC		DVD synchronous signal input			
	LEFM2	0	Output the state that cut and out a signal which was binary-stated value EFM with PCK 2			
	DVDD1	_	3.3V power supply for I/O			
	vss	-	GND			
100	LEFM	0	Output the state that cut and out a signal which was binary-stated value EFM with PCK 1			

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■ BA6664FM (DVDM ASSY : IC202)

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• Three-phase Motor Driver

Block Diagram

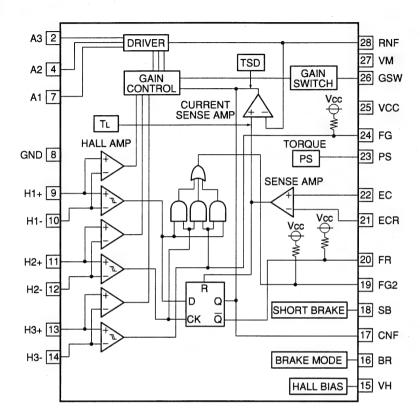
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Pin Function

No.	Pin Name	Pin Function	No.	Pin Name	Pin Function
1	N.C.	N.C.	16	BR	Brake mode switching pin
2	A3	Output pin	17	CNF	Capacitor connection pin for phase compensation
3	N.C.	N.C.	18	SB	Short brake pin
4	A2	Output pin	19	FG2	FG 3-phase mix signal output pin
5	N.C.	N.C.	20	FR	Rotation detecting pin
6	N.C.	N.C.	21	ECR	Control reference pin of output voltage
7	A1	Output pin	22	EC	Output voltage control pin
8	GND	GND pin	23	PS	Power save pin
9	H1+		24	FG	FG signal output pin
10	H1-		25	VCC	Power supply pin
11	H2+	Hall signal input pins	26	GSW	Gain switching pin
12	H2-	Hall signal input pins	27	VM	Motor power pin
13	H3+		28	RNF	Resistor connection pin for output current detection
14	H3-		FIN	FIN	GND
15	VH	Hall bias pin			

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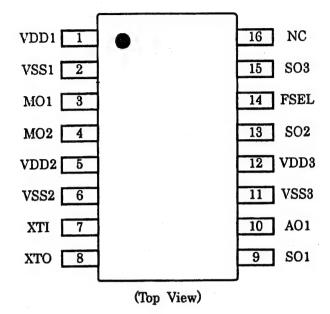
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■ SM8707HV (DVDM ASSY : IC481)

• Clock Generate IC

• Pin Arrangement



Pin Function

No.	Pin name	Dir.	Pin Functions
1	VDD1	PWR	Power supply terminal 1 (digital business)
2	VSS1	GND	Earth terminal 1 (digital business)
3	MO1	OUT	Video output terminal 1 (the 27MHz fixed output)
4	MO2	OUT	Video output terminal 2 (the 27MHz fixed output)
5	VDD2	PWR	Power supply terminal 2 (analog business)
6	VSS2	GND	Earth terminal 2 (analog business)
7	XTI	IN	External clock input terminal or crystal resonator connection
8	хто	OUT	Crystal resonator connection terminal
9	SO1	OUT	Signal conditioning system output terminal 1 (36.8640MHz fixation)
10	AO1	OUT	Sound output terminal 1 (the 512fs output)
11	VSS3	GND	Earth terminal 3 (digital business)
12	VDD3	PWR	Power supply terminal 3 (digital business)
13	SO2	OUT	Signal conditioning system output terminal 2 (16.9344MHz fixation)
14	FSEL	IN	Sampling frequency change terminal FSEL= "L": fs=48kHz FSEL= "H": fs=44.1kHz (There is inside pull-up resister, Schmidt trigger input)
15	SO3	OUT	Signal conditioning system output terminal 3 (33.8688MHz fixation)
16	NC	_	Unused terminal

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■ PD6345A (DVDM ASSY : IC601)

• FR CPU

● Pin Function

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No.	Mark	Pin Name	I/O	Pin Function			
1	P20/D16	D0					
2	P21/D17	D1					
3	P22/D18	D2					
4	P23/D19	D3					
5	P24/D20	D4	I/O				
6	P25/D21	D5					
7	P26/D22	D6					
8	P27/D23	D7					
9	P30/D24	D8		Data bus input/output			
10	P31/D25	D9					
11	P32/D26	D10					
	P33/D27	D11					
	P34/D28	D12					
14	P35/D29	D13					
15	P36/D30	D14					
16	P37/D31	D15					
	VSS	GND		Ground			
	P40/A00	A0		Circuita			
	P41/A01	A1					
	P42/A02	A2	0	Address bus output			
21	P43/A03	A3					
22	P44/A04	A4					
	P45/A05	A5					
	P46/A06	A6					
	P47/A07	A7					
26	VCC3	V+3.3D		Power supply			
27	VCC2	V+2.5D		Power supply			
	P50/A08	A8					
	P51/A09	A9					
	P52/A10	A10					
31	P53/A11	A11	0	Address bus output			
32	P54/A12	A12					
	P55/A13	A13					
	P56/A14	A14					
35	P57/A15	A15					
36	VSS	GND	_	Ground			
	P60/A16	A16					
	P61/A17	A17					
	P62/A18	A18					
40	P63/A19	A19	0	Address bus output			
41	P64/A20	A20		·			
42	P65/A21	A21					
43	P66/A22	A22		·			
44	P67/A23	WBL	0	For Wobble detection corresponding to DVD R/W (main)			
45	DAVS	GND	_	Ground			
46	DAVC	V+3.3D	_	Power supply			
	DA0	STEP1	I				
	DA1	STEP2	l	For stepping motor control			
	DA2	LODRV		Loading, door and select motor drive			

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No.	Mark	Pin Name	VO	Pin Function
50	AN0	NC	1 .	NC
51	AN1	NC	i i	NC
52	AN2	NC	1	NC
53	AN3	XOEM	- 1	OEM model protection input
54	AN4	LDREAD	 	Input for LD current value indication
55	AN5	NC	1	NC
56	AN6	NC	1	NC
57	AN7	LODPOS	1	Loading clamp position SW input
58	AVCC	V+3.3D	_	Power supply
59	AVRH	V+3.3D		Power supply
60	AVSS/AVRI	GND		Ground
61	vss	GND	_	Ground
62	PP0/ATGX	SLDPOS	1 1	SW input of slider inside position
63	PP1/FRCK	GSW	0	Gain up at ACBR (at ACBR: H, others: L)
64	PP2/IN0	780ON	1	ON/OFF control signal of 780nm laser diode
65	PP3/IN1	GU	0	RF, servo signal gain up terminal (H: Gain up)
66	PP4/IN2	XMON	0	Mute of DRV (spindle motor ON: H)
	PP5/IN3	XDRVMUT	0	FTS driver mute output
68	PP6	LT1 3V	0	Communication response to the FL controller
	PP7	XRDY_3V	i	Communication request from the FL controller
70	VCC3	V+3.3D		Power supply
71	VCC2	V+2.5D	_	Power supply
72	PO0/OC0	XCURDET	 	Actuator current detection input Servo OFF for "L" 300ms
73	PO1/OC1	XCBUSY	 	Busy signal of command process Command acceptable : "L"
74	PO2/OC2	XDSPRST	0	Servo DSP reset
75	PO3/OC3	BCA		BCA read signal (at BCA read: H) (Not used)
76	PO4/OC4	NC	1	NC
77	PO5/OC5	PPCNT	0	Switch of TZC in WBL traversal (at PP: H)
	PO6/OC6	XDFINH	0	Defect signal control (DEFECT ON: Hi-Z; OFF: "L")
79	PO7/OC7	DPD/TE	0	H=1 beam, L=3 beams
80	vss	GND		Ground
81	PN0/AIN0	DVD/XCD	0	RF EQ switching signal at DVD/CD "H": DVD, "L": CD
82	PN1/BIN0	AGOFF	0	"H": Turn off AGC of RFIC
83	PN2/AIN1	650X780	0	780nm/650nm switching signal
84	PN3/BIN1	LD ON	0	ON/OFF control signal of laser diode
85	PN4/AIN2	WBLSEL	0	NC C
86	PN5/BIN2	RFSEL	0	RF amplifier gain change terminal (H: Gain up)
87	PN6/AIN3	XCD2X	0	For VCD double speed playback
88	PN7/BIN3	OEICG	0	"H": Gain of OEIC up to 6dB
89	PM0/ZIN0	EN33M	0	NC
90	PM1/ZIN1	EN24M	0	NC
91	PM2/ZIN2	V SEL	0	(Composite, S) / (YCbCr) or (RGB) switch
	PM3/ZIN3	V SEL2	0	(Composite) of scart terminal / (S) switch
	PL0/SDA1	SDAI	12C Serial	12C control lines
	PL1/SDA0	NC	_	NC
	PL2/SCL1	SCLI	12C Serial	12C control lines
	PL3/SCL0	NC		NC
	PL4	стѕ	1	RS-232C clear to send input
	PL5	DTR	0	RS-232C clear to send output
	PL6/UC0	NC	0	NC
	VSS	GND		Ground
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No.	Mark	Pin Name	I/O	Pin Function
	PK0/TIN0	XVQERST	0	VQE3 reset signal
1	PK1/TIN1	XCSPRO1	_	Serial communication enable of the progressive converter IC
	PK2/TIN2	XCSVQE5	-	Serial communication enable of VQE5 IC
	PK3/TIN3	EN16M	0	N.C.
	PK4/TOT0	44X48	0	DAC and DASP supply clock fs 44/48 selection
	PK5/TOT1	1394XRDY	1	N.C.
	PK6/TOT2	AOSEL1		AV-1/audio DSP switch (front L/R data)
	PK7/TOT3		0	
	<u> </u>	P/XI	0	Progressive/Inter race change signal
	VCC3	V+3.3D		Power supply
	VCC2	V+2.5D	-	Power supply
	PJ0/INT0	XINT0	<u> </u>	
	PJ1/INT1	XINT1	!	
	PJ2/INT2	XIRQ10	l	MY chip interrupt #0
	PJ3/INT3	XIRQ11		MY chip interrupt #1
	PJ4/INT4	XABUSY		Busy signal of DSP process operation "L"
	PJ5/INT5	THLD		Playback speed monitoring signal
	PJ6/INT6	SBSY		Sync. signal of subcode block (period SO+SI "H")
	PJ7/INT7	N.C.	1	N.C.
119	PIO/SIO	SSI	1	Serial bus data input
120	PI1/SO0	SSO_3V	0	Serial bus data output
121	PI2/SCK0	SSCK_3V	I	Serial bus clock input
122	PI3/SI1	RXD_3V	1	RS-232C RXD
123	PI4/SO1	TXD_3V	0	RS-232C TXD
124	PI5/SCK1	NC	0	NC
125	PH0/SI2	1394LT	0	NC
126	PH1/SO2	DSPICM	ı	Audio system DSP serial communication Readv signal
127	PH2/SCK2	NC	ı	NC
128	MD0	GND	-	
129	MD1	GND	_	Ground
130	MD2	GND	_	
131	vss	GND	-	Ground
132	VCC2	V+2.5D	-	Power supply
133	vss	GND	_	Ground
134	X1	EXTAL	0	
135	XO	XTAL	ı	
136	VCC3	V+3.3D	_	Power supply
	PC0/DREQ2	RESET1	0	Audio system DSP reset
	PC1/DACK2	XCSADSP0	0	Chip select port for audio system DSP
	PC2/DEOP2	XCSDF2	0	DAC chip select (for surround system L/R)
	PB0/DREQ0	XDREQ0		DMA response output to BY Chip
	PB1/DACK0	DACK0	0	DMA request input from BY Chip
	PB2/DEOP0	ENCD	0	N.C.
	PB3/DREQ1	XDREQ1	1	DMA response output to AV-1 Chip
	PB4/DACK1	XDACK1	0	DMA request input from AV-1 Chip
	PB5/DEOP1		0	N.C.
	PB6/IOWRX	EN_FLOW	0	
		XCOMP		RGB/color difference change of video driver
	PB7/IORDX	XCSDF3	0	N.C.
	VSS	GND	-	Ground
	PA0/CSOX	XCS20	0	Chip select output to Flash ROM
150	PA1/CS1X	XCS6	0	AV-1 Chip select

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No.	Mark	Pin Name	I/O	Pin Function
151	PA2/CS2X	XCS3	0	Chip select of PD4995A (MY Chip)
152	PA3/CS3X	XCS4	0	Chip select of servo DSP
153	PA4/CS4X	XCS23	0	Chip select output to SRAM (1M)
154	PA5/CS5X	N.C.	0	N.C.
155	PA6/CS6X	N.C.	0	N.C.
156	PA7/CS7X	N.C.	0	N.C.
157	VCC3	V+3.3D	_	Power supply
158	VCC2	V+2.5D	_	Power supply
159	NMIX	_	-	V+3.3D fixed
160	HSTX	_	_	V+2.5D fixed
161	INITX	XINIT	• 1	
162	P80/RDY	RDY	1	
163	P81/BGRNTX	XAMUTE	. 1	Final stage mute of 2 ch audio output
164	P82/BRQ	XMMUTE	0	Audio multi channel mute
165	P83/RDX	XRD	0	
166	P84/WR0X	XWR0	0	
167	P85/WR1X	XWR1	0	
168	VSS	GND		Ground
169	P90/SYSCLK	SYSCLK	0	N.C.
170	P91	DFRST	_	DAC reset (for front L/R)
171	P92/MCLK	DFRST1	_	DAC reset (for center, surround and LFE)
172	P93	XCSDF0	0	DAC chip select (←XLAT3)
173	P94/LBAX	XCSDF1	0	DAC chip select for center, surround and LFE
174	P95/BAAX	XAQRST	0	AQE reset
175	P96	XCSAQE	0	AQE chip select
176	P97/WEX	TM ENT	1	Test mode entry

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■ M65776BFP (DVDM ASSY : IC751)

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• MPEG2 Decorder IC

Block Diagram

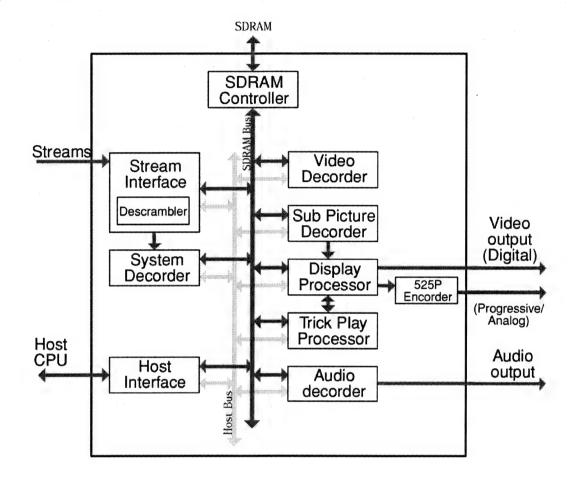
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Pin Function

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No.	Pin name	Dir.	Pin Functions
201-208	BD [7:0]	IN	Bit stream data entry pin
2	BCLK	IN	Strobe signal of BD pin (clock)
3	BDEN	IN	This order effective / invalidity of data done a sample of by BD pin. It is done a sample with a start edge of BCLK.
4	BDREQ	OUT	Data demand signal
5	BSECH	· IN	This order it whether data of BD pin are with top byte of a sector.
84-87 90-95 97-102	MD [15:0]	I/O	Data transfer line with SDRAM
53-55 58-63 65, 67, 69	MA [11:0]	OUT	Address line of SDRAM
66, 68	MBA [1:0]	OUT	SDRAM bank choice line
70	DCS		
73	DCS2		
74	DCS3	OUT	Chip select of SDRAM
75	DCS4		
76	DCS5	7	
77	RAS	OUT	RAS (Row Address Strobe) control line of SDRAM
78	CAS	OUT	CAS (Column Address Strobe) control line of SDRAM
82	DQMU	OUT	DQM control line of SDRAM
83	DQML	OUT	DQM control line of SDRAM
80	DWE	OUT	WE control line of SDRAM
79	MCLK	OUT	Movement clock of SDRAM
183	PXCLK	OUT	27MHz pixel clock
182	PXCLKP	OUT	54MHz pixel clock
157, 158, 184-186 188-192	PD [7:0]	OUT	Digital pixel data. Y/Cb/Cr is done multiple of by 8 bit bus, and it is output.
178	CSYNC	IN	Composite SYNC signal input terminal
179	OSDKEY	OUT	OSD key flag output
177	PWD	OUT	The phase comparator output for external synchronization movement
181	HSYNC	OUT	Horizontal synchronizing signal output pin
180	VSYNC	OUT	Vertical synchronizing signal output pin
164	AO0	OUT	Serial PCM data for DAC It output Lf/Rf data.
166	AO1	OUT	Serial PCM data for DAC It output C/Sw data.
167	AO2	ОИТ	Serial PCM data for DAC It output Ls/Rs data.
168	AOD	OUT	Serial PCM data for DAC It is for the down mixture output.
169	AAD	OUT	Anciallary data output
176	DOCLK	OUT	PCM bit clock
159	LRCLK	OUT	Clock for channel distinction of pulse code modulation audio system data (L/R)
173	DACCLK	OUT	Exaggerated sample movement clock of DAC
161	CDBCK	IN	The pulse code modulation bit clock which is input by CDDSP
160	CDLRCK	IN	The L/R clock which is input by CDDSP

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No.	Pin name	Dir.	Pin Functions
163	CDDIN	IN	PCM audio system data which are input by CDDSP
162	CDDATA	IN	Digital audio interface input
170	DOUT0	OUT	Digital audio interface output
171	DOUT1	OUT	Digital audio interface output
6-11 14-19 21-24	HD [15:0]	1/0	Data I/O pin
25, 26 29-34 36-39	HA [11:0]	IN	Address input pin
45	вне	IN	Byte High Enable signal input pin
41	RE	IN	Read Enable signal input pin
44	WE	IN	Write Enable signal input pin
40	cs	IN	Chip Select signal input pin
46	RDY	OUT	The acknowledge signal which shows that readout of data or a note was completed
47	INT1		
48	INT2	ООТ	It is an interrupt request signal for outside CPU from M65776AFP
49	INT3		
51	DREQ	OUT	DMA request signal for OSD BitMap transfer
52	DACK	IN	DMA acknowledge signal for OSD BitMap transfer
194, 195	HMODE [1:0]	IN	Host interface mode of operation setting pin
117	IREF	IN	Reference electric current input pin
115	AVRI	IN	Reference voltage input pin
120	BIAS1	INI	Discusting improved a superior of a superior
118	BIAS2	- IN	Bias voltage impression pin of current source
119	PAY	OUT	Analog electric current output pin (for Y)
116	PAB	OUT	Analog electric current output pin (for Pb)
122	PAR	OUT	Analog electric current output pin (for Pr)
114	DAOUTB	OUT	Be connected to an analog ground.
113, 121, 123	AVDD33	-	3.3V analog power supply
124	AGND33	-	Analog ground
106	CLKIN	IN	System clock input terminal It input 27MHz clock.
105	CLKO	OUT	27MHz clock output
172	ACLKI	iN	Audio system clock input terminal
193	RESET	IN	Hardware reset terminal
196, 197, 200	TEST [2:0]	IN	Fix it in "L" potential.
12, 27, 42, 56, 71, 88, 103, 134, 155, 174, 198	VDD18	-	1.8V power supply terminal
13, 28, 43, 57, 72, 89, 104, 135, 156, 175, 199		-	3.3V power supply terminal

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No.	Pin name	Dir.	Pin Functions
1, 20, 35, 50, 64, 81, 96, 112, 125, 145, 165, 187	GND	-	Ground terminal
107	AVDD18		1.8V power supply terminal for inside PLL
108	AGND18	-	Ground terminal for inside PLL
109-111 126-133 136-144 146-154	NCO	NC	

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DV-59AVI

- D/A Converter IC
- Pin Arrangement

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	p	CM1738	
		***************************************	1
1	RST	V _{cc} 3	28
2	ZEROL	AGND2	27
3	ZEROR	lourL-	26
4	LRCK	lourL+	25
5	DATA	V _{∞2}	24
6	BCK	V _∞ 1	23
7	SCKI	V _{COM} 3	22
8	DGND	IREF	21
9	V _{DD}	V _{COM} 2	20
10	SCKO	V _{COM} 1	19
11	MDO	AGND1	18
12	MDI	lourR+	17
13	MC	lourR-	16
14	CS	MUTE	15
•			•

Pin Function

PIN	NAME	TYPE	DESCRIPTIONS	
1	RST	IN	Reset	(1)
2	ZEROL	OUT	Zero Flag for L-channel	
3	ZEROR	OUT	Zero Flag for R-channel	
4	LRCK	IN	Left and Right Clock (fs) Input for Normal operation. WDCK clock input in External DF mode. Connected to GND in DSD mode.	
5	DATA	IN	Serial Audio Data Input for Normal operation. L-channel audio data input for External DF and DSD modes.	(1)
6	BCK	IN	Bit Clock. Input. Connected GND for DSD mode.	(1)
7	SCKI	IN	System Clock Input. BCK (64 f _s) clock input for DSD mode	(1)
8	DGND	-	Digital Ground	
9	V _{DD}	-	Digital Supply, +3.3 V	
10	SCKO	OUT	System Clock Output	
11	MDO	OUT	Serial data output for function control register	(2)
12	MDI	IN	Serial data input for function control register	(1)
13	MC	IN	Shift Clock for function control register	(1)
14	cs	IN	Mode control chip select and latch signal.	(1)
15	MUTE	IN ·	Analog output mute control for normal operation R-channel audio data input for external DF mode and DSD mode.	(1)
16	lourR-	OUT	R-channel Analog Current Output -	
17	lourR+	OUT	R-channel Analog Current Output +	
18	AGND1	-	Analog Ground.	
19	V _{COM} 1	-	Internal bias de-coupling pin	
20	V _{сом} 2	-	Common voltage for I/V	
21	I _{REF}	-	Output current reference bias pin, Connect 16ΚΩ resistor to GND	
22	V _{COM} 3	•	Internal bias de-coupling pin	
23	V _{cc} 1		Analog Supply, +5.0 V	
24	V _{cc} 2	-	Analog Supply, +5.0 V	
25	lourL+	OUT	L-channel Analog Current Output +	
26	lourL-	OUT	L-channel Analog Current Output -	
27	AGND2	-	Analog Ground	
28	Vcc3	-	Analog Power Supply, +5.0V	\neg

NOTES:

- (1) Schmitt trigger input, 5 V tolerant.
- (2) Tristate output.

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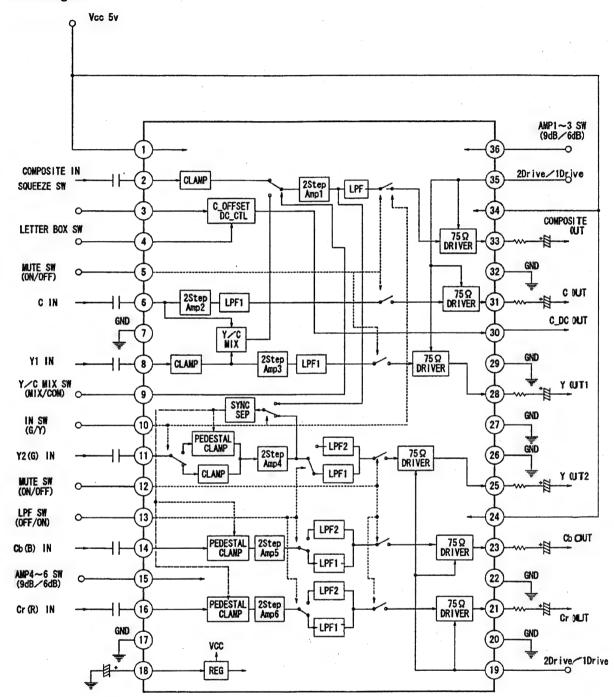
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■ LA73054 (VJKB ASSY : IC302, IC601)

• DVD Video Amplifier

Block Diagram



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Pin Function

No.	Pin Fu	nctions	0- 0.7V (LOW)	2.6- 5V (HIGH)
36	AMP-GAIN chan	ge for composite/S	6 dB	9 dB
15	AMP-GAIN char	ge for component	6 dB	9 dB
35	Drive electric current	change for composite/S	2 system drive	1 system drive
19	Drive electric current	change for component	2 system drive	1 system drive
5	Mute control for composite/S	In 10 pin LOW	It is not do mute	33, 31, 28 pin mute
3		In 10 pin HIGH	It is not do mute	31, 28 pin mute
12	Mute control	for component	It is not do mute	25, 23, 21 pin mute
9	The control	of Y/C- MIX	In composite	In Y/C- MIX
10	11 pin input	form change	In the component input	In the baseband input
13	LPF characteristic o	hange for component	Inter race correspondence	Progressive correspondence

² pin falls to GND in Y/C-MIX.

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¹¹ pin is clamp, and the Y signal input, 14, 16 pin input a CB, CR signal into NTSC (in the component input) with pedestal clamp. 8 pin is clamp, and the Y signal input, 11, 14, 16 pin input a R, G, B signal into PAL (in the baseband input) with pedestal clamp. It prohibit mute of 5 pin when It do Y/C-MIX in PAL (in the baseband input).

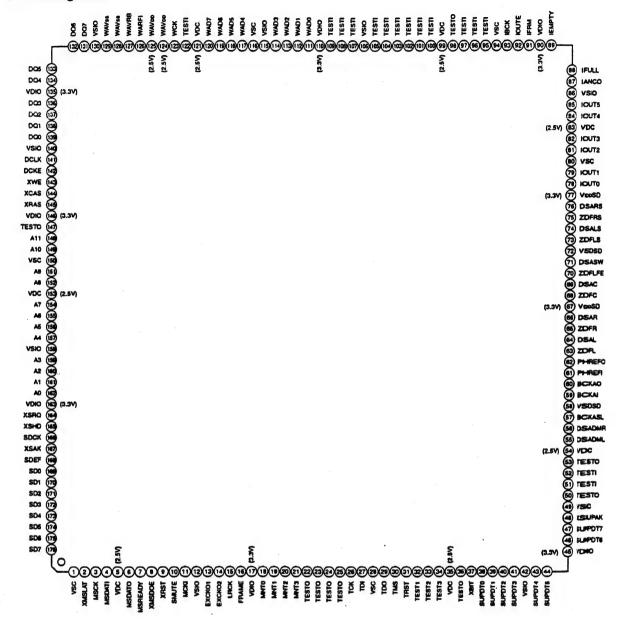
■ CXD2753R (DVDM ASSY : IC1110)

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SACD Decorder

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Pin Arrangement



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● Pin Function

No.	Pin Name	1/0	Pin Function
1	vsc	<u> </u>	Ground terminal for core
2	XMSLAT		Latched input terminal for microcomputer serial communication
3	MSCK		Shift clock input terminal for microcomputer serial communication
4	MSDAI		Data entry terminal for microcomputer serial communication
5	VDC	-	Power supply terminal for core
6	MSDATO]	Data output terminal for microcomputer serial communication
7	MSREADY	0	Output preparation completion flag for microcomputer serial communication
8	XMSDOE		Output enable terminal for microcomputer serial communication
9	XRST		Reset terminal resets the whole IC with "L".
10	SMUTE	lpd	Software mute removes audio out with "L" with "H" a soft mute terminal.
11	MCKI	1	Master clock input terminal
12	VSIO	-	Ground terminal for I/O
13	EXCKO1		Outside output clock terminal 1
14	EXCKO2		Outside output clock terminal 2
15	LRCK]	1Fs (44.1kHz) clock output terminal
16	FRAME		Frame signal output terminal
	VDIO	-	Power supply terminal for I/O
	MNT0]	
	MNT1		Monitor output terminal
20	MNT2		
21	MNT3	0	
22		-	
23	TESTO		Output terminal for test
24			
25			
26	TCK		It is fixation in "L" a clock input terminal for test.
27	TDI	lpu	Input terminal for test
28	VSC	-	Ground terminal for core
29	TDO	0	Output terminal for test
	TMS	lpu	Input terminal for test
	TRST		Reset terminal for test
	TEST1		
	TEST2	'	It is fixation in "L" a clock input terminal for test.
	TEST3		
	VDC	-	Power supply terminal for core
	TESTO	-	Output terminal for test
	XBIT	1	DST connection monitor terminal
	SUPDT0	0	Supplementary data output terminal (LSB)
	SUPDT1	-	
	SUPDT2	-	Supplementary data output terminal
41	SUPDT3		
42	VSIO	-	Ground terminal for I/O
	SUPDT4	0	Supplementary data output terminal
	SUPDT5		
45	VDIO	-	Power supply terminal for I/O
46	SUPDT6	1	Supplementary data output terminal
	SUPDT7	0	Supplementary data output terminal (MSB)
48	XSUPAK	<u> </u>	Supplementary data output terminal
49	VSC	-	Ground terminal for core
50	TESTO	0	Output terminal for test

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No.	Pin Name	1/0	Pin Function				
51							
52	TESTI		It is fixation in "L" a test input terminal.				
53	TESTO	0	Output terminal for test				
54	VDC	-	Power supply terminal for core				
55	DSADML		DSD data output terminal for Lch Down Mix				
56	DSADMR	0	DSD data output terminal for Rch Down Mix				
57	BCKASL	1	Input and output choice terminal of a 1 bit clock for DSD data output.L= input (slave), H = output (master).				
58	VSDSD	-	Ground terminal for DSD data output				
59	BCKAI	1	Bit clock input terminal for DSD data output				
60	BCKAO	0	Bit clock output terminal for DSD data output				
61	PHREFI	1	Phase reference signal input terminal for DSD output phase modulation				
62	PHREFO		Phase reference signal output terminal for DSD output phase modulation				
63	ZDFL	1	Zero Lch data search flag				
64	DSAL	0	DSD data output terminal for Lch loud speaker				
65	ZDFR	1	Zero Rch data search flag				
66	DSAR	Ī	DSD data output terminal for Rch loud speaker				
67	VDDSD	-	Power supply Mizuko for DSD data output				
68	ZDFC		Zero Cch data search flag				
69	DSAC	1	DSD data output terminal for Cch loud speaker				
70	ZDFLFE	0	Zero LFEch data search flag				
71	DSASW	1	DSD data output terminal for SWch loud speaker				
72	VSDSD	-	Ground terminal for DSD data output				
73	ZDFLS		Zero LSch data search flag				
74	DSALS	0	DSD data output terminal child for LSch loud speaker				
75	ZDFRS	1 0	Zero RSch data search flag				
76	DSARS	1	DSD data output terminal for RSch loud speaker				
77	VDDSD	-	Power supply Mizuko for DSD data output				
78	IOUT0	0	Data output terminal 0 for IEEE1394 link tip I/F				
79	IOUT1	1 "	Data output terminal 1 for IEEE1394 link tip I/F				
80	VSC	-	Ground terminal for core				
81	IOUT2	0	Data output terminal 2 for IEEE1394 link tip I/F				
82	IOUT3	١	Data output terminal 3 for IEEE1394 link tip I/F				
83	VDC	-	Power supply terminal for co				
84	IOUT4	0	Data output terminal 4 for IEEE1394 link tip I/F				
85	IOUT5	ľ	Data output terminal 5 for IEEE1394 link tip I/F				
	VSIO	-	Ground terminal for I/O				
87	IANCO	0	Transmission information data output terminal for IEEE1394 link tip I/F				
88	IFULL		Data transmission hold demand signal input terminal for IEEE1394 link tip I/F				
89	IEMPTY	L'	High speed transmission demand signal input terminal for IEEE1394 link tip I/F				
90	VDIO	-	Power supply terminal for I/O				
	IFRM		Frame reference signal output Mizuko for IEEE1394 link tip I/F				
92	IOUTE	0	Enable signal output terminal for IEEE1394 link tip I/F				
93	IBCK		Data transmission clock output terminal for IEEE1394 link tip I/F				
94	VSC	-	Ground terminal for core				
95		1	It is fixation in "H" a test input terminal.				
96	TESTI	L'	It is fixation in "L" a test input terminal.				
97		lpu	It is fixation in "H" a test input terminal.				
98	TESTO	0	Output terminal for test				
99	VDC	-	Power supply terminal for co				
100	TESTI	1	It is fixation in "L" a test input terminal.				

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No.	Pin Name	I/O	Pin Function					
101								
102								
103	TESTI	1	It is fixation in "L" a test input terminal.					
104								
105								
106	VSI0	-	Ground terminal for I/O					
107								
108	TESTI	1	It is fixation in "L" a test input terminal.					
109								
	VDIO	-	Power supply terminal for I/O					
	WAD0		Outside A/D data entry terminal for PSP Physical Disc Mark search (LSB)					
112	WAD1	1						
113	WAD2] '	Outside A/D data entry terminal for PSP Physical Disc Mark search					
	WAD3							
115	VSIO	-	Ground terminal for I/O					
	vsc	-	Ground terminal for core					
	WAD4							
118	WAD5		Outside A/D data entry terminal for PSP Physical Disc Mark search					
	WAD6	'						
	WAD7		Outside A/D data entry terminal for PSP Physical Disc Mark search (MSB)					
	VDC	-	Power supply terminal for core					
	TESTI	١,	It is fixation in "L" a test input terminal.					
123	WCK	ı.	Movement clock for PSP Physical Disc Mark search					
124 125	WAVDD	-	A/D power supply terminal for PSP Physical Disc Mark search					
126	WARFI	Α:	Analog RF signal input terminal for PSP Physical Disc Mark search					
127	WAVRB	Ai	A/D bottom reference terminal for PSP Physical Disc Mark search					
128 129	WAVSS	-	A/D ground terminal for PSP Physical Disc Mark search					
130	VSIO	-	Ground terminal for I/O					
131	DQ7		SDRAM data input-output terminal (MSB)					
132	DQ6							
133	DQ5	1/0	SDRAM data input-output terminal					
134	DQ4							
135	VDIO	-	Power supply terminal for I/O					
136	DQ3							
	DQ2	1/0	SDRAM data input-output terminal					
138	DQ1	"						
	DQ0		SDRAM data input-output terminal (LSB)					
	VSIO	-	Ground terminal for I/O					
	DCLK		Clock output terminal for SDRAM					
	DCKE		Clock enable output terminal for SDRAM					
	XWE	0	Wright enable output terminal for SDRAM					
	XCAS		Column address strobe output terminal for SDRAM					
	XRAS		Row address strobe output terminal for SDRAM					
	VDIO	-	Power supply terminal for I/O					
	TESTO .		Output terminal for test					
148		0	Address output terminal for SDRAM (MSB)					
149			Address output terminal for SDRAM					
150 T	VSC	-	Ground terminal for core					

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No.	Pin Name	1/0	Pin Function
151	A 9	0	Address output terminal for SDRAM
152	A8	O	Address output terminal for SDNAW
153	VDC	-	Power supply terminal for core
154	A7		
155	A 6	0	Address output terminal for SDRAM
156	A5	U	Address output terminal for SDNAW
157	A4		·
158	VSIO	-	Ground terminal for I/O
159	A3		
160	A2	0	Address output terminal for SDRAM
161	A1		
162	A 0		Address output terminal for SDRAM (LSB)
163	VDIO	-	Power supply terminal for I/O
164	XSRQ	0	Data request output terminal to input into a front end processor
165	XSHD		Input terminal of a header flag output by a front end processor
166	SDCK		Input terminal of a data carrier clock output by a front end processor
	XSAK		Input terminal of data partial response flag output by a front end processor
168	SDEF		Input terminal of error flag output by a front end processor
169	SD0		The stream data input terminal which is output by a front end processor (LSB)
170	SD1		
171	SD2		
172	SD3		The stream data input terminal which is output by a front end processor
173	SD4		The stream data input terminal which is output by a nont end processor
174	SD5		
175	SD6		
176	SD7		The stream data input terminal which is output by a front end processor (MSB)

lpu : Pull-up input, lpd : Pull-down input, Ai : Analog input

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■ PE5314B (FLKY ASSY : IC101)

• FL Controller

● Pin Function

No.	Signal name	Dir.	Pin Functions	
1	V _{DD1}	_	Positive Power Supply (3.3 V)	
2	Vss1	_	Ground Potential	
3	X1	IN	- Crystal Connection for Main System Clock Oscillation	
4	X2	_		
5	IC	_	Internally Connected (Directly connect to VSS1)	
6	RESET	IN	Reset Input	
7	SCK1	IN	Serial Clock Input of Serial Interface	
8	SI1	IN	Serial Data Input of Serial Interface	
9	SO1	OUT	Serial Data Output of Serial Interface	
10	XRDY	OUT	Hand-shake (Ready) Output of Serial Interface	
11	POWER ON	OUT	Power Control Output	
12	RESET OUT	OUT	System Reset Output	
13	RESERVE OUT	OUT	Reserved (NC on this model)	
14	LED8	OUT	LED Port 8 (NC on this model)	
15	HALT	IN	Halt Port "NC" : Use Halt Mode	
16	ACK	IN	Hand-shake (Acknowledge) Input of Serial Interface (Interrupt)	
17	SELIR	IN	Remote Control Input (Timer input of 8-bit remote control timer)	
18	Avss	_	Ground Potential for A/D Converter	
19	MS1	IN	Destination (of player) Select (Analog Input for A/D Converter)	
20	NC	-	NC .	
21	KEY1	IN	Key Input 1 (Analog input for A/D converter)	
22	KEY0	IN	Key Input 0 (Analog input for A/D converter)	
23	VSS0	-	Ground Potential to Ports	
24	AVDD	-	Analog Power/Reference Voltage Input to A/D Converter (3.3 V)	
25	VDD0	-	Positive Power Supply to Ports (3.3 V)	
26	MS0_2			
27	MS0_1	IN	Model (of player) Select (Set with a combination of this 3 ports)	
28	MS0_0			
29	LED7	OUT	LED Port 7	
30	LED(STAND BY)	OUT	Stand By LED Port	
31	PWSW	IN	Primary Switch State Input "H" : ON "L" : OFF	
32	TES	IN	"H" : No System Reset mode	
33	OEM	IN	"H" : OEM Model "L" : Pioneer Model	
34	MIC IN	IN	Detection of Microphone "H" : Microphone connected	
35	CHECKER	IN	"H" : Checker Mode "L" : General mode	
36	ON POWER	IN	"H" : Primary Power Switch Model "L" : Secondary Power Switch Model	
37	FL SET2	IN	FL-Controller Mode Select FL SET1 / 2 = "H" / "H" : Other model FL SET1 / 2 = "H" / "L" : Other model	
38	FL SET1		FL SET1 / 2 = "L" / "H" : Other model FL SET1 / 2 = "L" / "L" : DV-555, 656A, 757Ai (This model)	
39	TEST2	OUT	Test Port	
40	LED6	OUT	LED Port 6	

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No.	Signal name	Dir.	Pin Function
41	LED5		LED Port 5
42	LED4		LED Port 4
43	LED3	OUT	LED Port 3 (NC on this model)
44	LED2]	LED Port 2 (NC on this model)
45	LED1	-	LED Port 1 (NC on this model)
46	LED0		LED Port 0 (NC on this model)
47	TEST1	OUT	Test Port
48	NC	_	NC
49	1394RST	OUT	1394 Host Controller Reset Output
50	NC	-	NC
51	P16	OUT	FIP Segment 16 Output
52	P15	OUT	FIP Segment 15 Output
53	NC	_	NC
54	P14		FIP Segment 14 Output
55	P13		FIP Segment 13 Output
56	P12	OUT	FIP Segment 12 Output
57	P11		FIP Segment 11 Output
58	P10		FIP Segment 10 Output
59	VDD2	-	Positive Power Supply to FIP Controller/Driver (3.3 V)
60	VLOAD		Pull-down Resistor Connection of FIP Controller/Driver (-28V)
61	P9		FIP Segment 9 Output
62	P8	1	FIP Segment 8 Output
63	P7		FIP Segment 7 Output
64	P6	1	FIP Segment 6 Output
65	P5	ООТ	FIP Segment 5 Output
66	P4		FIP Segment 4 Output
67	P3		FIP Segment 3 Output
68	P2		FIP Segment 2 Output
69	P1		FIP Segment 1 Output
70	G11		FIP Grid 11 Output
71	G10		FIP Grid 10 Output
72	G9		FIP Grid 9 Output
73	G8		FIP Grid 8 Output
74	G7		FIP Grid 7 Output
75	G6	ООТ	FIP Grid 6 Output
76	G5	1	FIP Grid 5 Output
77	G4	1	FIP Grid 4 Output
78	G3		FIP Grid 3 Output
79	G2	1	FIP Grid 2 Output
80	G1		FIP Grid 1 Output

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● Pin Function

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No.	Pin name	Dir.	Pin Functions
3, 40, 50, 54, 84, 103, 107, 145, 154, 158, 207		-	It is a power supply of digital circuit. Be connected to +3.3V.
15, 18, 27, 53, 64, 74, 78, 92, 104, 130, 157, 164, 183, 191, 208		-	It is a power supply of digital circuit. Be connected to +2.5V.
1, 2, 16, 17, 26, 41, 51, 52, 63, 73, 79, 85, 91, 105, 106, 131, 144, 150, 155, 156, 178, 182, 190		-	It is a ground of digital circuit.
167, 171, 175	NC	-	It is a non-use pin. Fix it in GND or VDD.
165 166	AVDD	-	It is a power supply supply terminal for built-in analog-to-digital converter. Supply +2.5V (analog).
176 177	AGND	-	It is a GND terminal for built-in D/A converter.
6	BUNRI	IN	It is a separation test control terminal of inside RAM. Input LOW in use usually.
90	TMC1	IN	It is a test terminal. Input LOW in use usually.
148	TMC2	IN	it is a test terminal. Input 25W in use assainy.
4	DMCK/RF_A	IN	It is the system clock input of DVD/CD-ROM decoder. Input 10-54MHz.
189	CKCD	IN	It is master clock of an audio system I/F block. In audio out of a CD, input 16.9MHz of reference clock.
5	DMACKI/PD4	IN	Fix unused time (unused usually) in GND or VDD.
149	VCOCLK	IN	With system clock of spindle demodulator, it is connected to VCO of outside charge account.
161	XRESET	IN	By the input of a LOW level, It initialize the whole large scale integrated circuit system.
135	SA19	1/0	Connect address bus of central processing unit.
134	SA18		
133	SA17		
132	SA16		
129	SA15		
128	SA14		
127	SA13		
126	SA12		
125	SA11		
124	SA10		
123	SA9		

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No.	Pin name	Dir.	Pin Functions
122	SA8	IN	Connect address bus of central processing unit.
121	SA7	1	
120	SA6	7	
119	SA5	7	
118	SA4		
117	SA3	7	
116	SA2	7	
115	SA1	7	
114	SA0		
99	SAD7	1/0	Connect a data bus of central processing unit.
100	SAD6	7	
101	SAD5	7	
102	SAD4	1	
108	SAD3	1	
109	SAD2	1	
110	SAD1	1	
111	SAD0		
97	XSRD	IN	Be connected to a RD signal of central processing unit.
98	XSWR	IN	Be connected to a WR signal of central processing unit.
96	XSCL1	IN	It is chip select signal from central processing unit. XSRD/XSWR becomes effective at the time of LOW this signal.
95	XSWAIT	OUT	It is the WAIT output for central processing unit. This terminal must leave access from central processing unit at the time of LOW.
94	XSDREQ	OUT	It is a DMA demand for central processing unit. LOW level hip of this terminal falls down and activates DMA transfer with an edge.
93	SDACK	IN	It is DMA answer back. Data are output with HIGH this signal by SAD (7:0).
112	XIRQ10		It demand interrupt for central processing unit with LOW.
113	XIRQ11] 001	Both terminals can set it with a register whether they output it.
141	FGPL/PE3	IN	Input a turn pulse from spindle motor.
147	FPWM	OUT	It is 7bitPWM output terminal for FG servo. It is the 3 value output of HIGH,LOW, high impedance.
146	VPWM	OUT	It is 5bitPWM output terminal for speed servo. It is the 3 value output of HIGH,LOW, high impedance.
143	PPWM	ОИТ	It is pulse width modulation output terminal for phase servo. It is the 3 value output of HIGH,LOW, high impedance.
142	RERR	OUT	It is control output for rough servo. It is the 3 value output of HIGH,LOW, high impedance.
31	PA7	I/O	It is general-purpose I/O port. By setting of a \$70 register, You can select a function. CDDO inputs a digital out signal from a CD decoder.
32	PA6		DIFOUT is digital audio output terminal based on IEC958.
33	PA5		BCA is terminal to input a BCA code into.
34	PA4		RWDIN is terminal to input a WOBBLE signal into. BCA/RWDIN terminal becomes necessary with RW revitalization machines.
35	CDDO/PA3		,
36	DIFOUT	7	
196	BCA/PA1		
195	RWDIN/PA0		

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No.	Pin name	Dir.	Pin Functions
138	PD7/STATUS2	OUT	It output a various monitor signal (STATUS (2:0)).
139	PD6/STATUS1	1	By setting of a \$ 70 register, You can use it as a general-purpose I/O port port.
140	PD5/STATUS0		
151	DUTY50	OUT	It always output a pulse of duty 50%. It give reference voltage of a various PWD signal of the recovery system.
160	ASC	OUT	It output frequency error of a sink period as a PWD pulse.
153	APC	OUT	It output a phase error of phase locked loop as a PWD pulse.
159	ATC	OUT	It output a direct current error of a RF signal as a PWD pulse.
152	AFC	OUT	It output VC OCL k and frequency error of reference clock as a PWD pulse. It is the 3 value output of HIGH,LOW, high impedance.
163	DEFECT/PE1	IN	It is the diffect signal input from the outside. Then a phase error of phase locked loop outputs this terminal in HIGH (APC), and it is done front value hold.
162	T_DET/PC7	OUT	It output a tangential-tilt search result as a pulse width modulation pulse.
70	DA13	OUT	It is address signal of DRAM for a VBR buffer.
71	DA12		
72	DA11		
75	DA10		
76	DA9		
77	DA8		·
80	DA7		
81	DA6		
82	DA5		
83	DA4		
86	DA3		
87	DA2		
88	DA1		
89	DA0		
39	DD15	1/0	It is a data bus of DRAM for a VBR buffer.
42	DD14]	
43	DD13]	
44	DD12	_	
45	DD11	1	
46	DD10		
47	DD9	·	
48	DD8		
49	DD7		
55	DD6	_	
56	DD5		
57	DD4]	
58	DD3		
59	DD2		
60	DD1		•
61	DD0		

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No.	Pin name	Dir.	Pin Functions	
69	XDRAS	OUT	It is a RAS signal of DRAM of a VBR buffer.	
67	XDCAS/XDCASL	OUT	It is a CAS signal of DRAM of a VBR buffer.	
66	XDOE/DQML	OUT	It is an OE signal of DRAM of a VBR buffer.	
65	XDWE	OUT	It is a WE signal of DRAM of a VBR buffer.	
13	SDATA7	OUT	It is a data output bus of a VIDEO_DMA channel.	
14	SDATA6		Be connected to MPEG decoder.	
19	SDATA5			
20	SDATA4		·	
21	SDATA3			
22	SDATA2			
23	SDATA1			
24	SDATA0			
29	SREQ	IN	It is a data transfer demand terminal of a VIDEO_DMA channel. Be connected to MPEG decoder. You can change polarity by setting.	
25	XSACK/PC5	OUT	It is a transfer reply terminal of a VIDEO_DMA channel. Be connected to MPEG decoder. Output form varies with setting.	
28	XWR	OUT	It is a transfer reply terminal of a VIDEO_DMA channel. Be connected to MPEG decoder. Output form varies with setting.	
30	XAVTRM/PC6	OUT	It is a signal to show the top of a sector of transfer data of a VIDEO_DMA channel in.	
7	DSPA0/PC0	OUT	When it connects Motorola Digital Signal Processor as destination of an AUDIO_DMA channel, it is the signal which gives a DMA address to Motorola Digital Signal Processor.	
8	DSPA1/PC1			
9	DSPA2/PC2			
206	ASDATA0/PB0	I/O	It is general-purpose I/O port.	
205	ASDATA1/PB1		By setting of a \$70 register, It become a data output bus of an AUDIO_DMA channel besides a port.	
204	ASDATA2/PB2			
203	ASDATA3/PB3			
202	ASDATA4/PB4			
201	ASDATA5/PB5			
200	ASDATA6/PB6			
199	ASDATA7/PB7			
10	XAWR	OUT	It is a transfer reply terminal of an AUDIO_DMA channel. Output form varies with setting.	
11	XASACK	OUT	It is a transfer reply terminal of an AUDIO_DMA channel. Output form varies with setting.	
12	ASREQ	IN	It is a transfer demand terminal of an AUDIO_DMA channel. You can change polarity by setting.	
192	BCK	OUT	It is the bit clock output to DAC.	
193	LRCK	OUT	It is the LRCK signal output to DAC.	
194	ADATA0	OUT	It is the serial data output to DAC.	
187	CDBCK	IN	It input a bit clock from a CD decoder. Prospective frequency is 2.1168MHz(48fs).	
186	CDLR	IN	It input a LRCK signal from a CD decoder.	
185	CDDT	IN	It input audio system data from a CD decoder.	
181	WFCK	IN	It is frame clock signal of a CD.	
180	SCOR	IN	It is input terminal of assistant code sink of a CD.	

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No.	Pin name	Dir.	Pin Functions	
179	SBSO	IN	It is an assistant code data input terminal of a CD.	
184	EXCK	OUT	It is a shift clock making timeliness to send data forth on a SBSO terminal.	
188	C2FI/PE2	IN	It is input terminal of C2 error flag from a CD decoder.	
136	FSX/STATUS4	I/O	It input a FSX signal from a CD decoder. FSX signal is 7.35Khz at normal speed with frame alignment signal of error correction of CIRC. By setting of a \$7F register, It become the internal monitor output (STATUS 4).	
137	EFLG/STATUS3	1/0	It input an EFLG signal from a CD decoder. An EFLG signal is a monitor signal of error correction processing movement of CIRC. By setting of a \$7F register, It become the internal monitor output (STATUS 3).	
172	AIN	IN	It is analog RF signal input terminal to built-in A/D converter.	
168	VRT	IN	It is reference voltage input terminal of built-in A/D converter.	
169	VRTS	OUT	Connect with VRT.	
170	VRC	OUT	It is center voltage output terminal of built-in A/D converter.	
174	VRB	IN	It is reference voltage input terminal of built-in A/D converter.	
173	VRBS	OUT	Connect with VRB.	
37	CKE/PD3	OUT	It is an Enable signal of SDCLK.	
38	CSB/PD2	OUT	It is chip select signal of SDRAM.	
62	SDCLK	OUT	It is a terminal outputting a movement clock of SDRAM.	
68	XCASH/DOMH	OUT	When it uses DRAM of bus 16 wide bit, it is a CAS signal of high rank 8bit.	
197	VREQEN/PD1	1/0	It is an Enable signal of Video-REQ.	
198	AREQEN/PD0	1/0	It is an Enable signal of Audio-REQ.	

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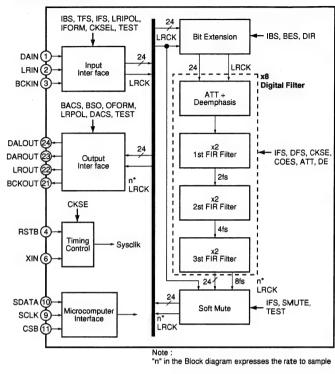
■ PD0274A (DVDM ASSY : IC552)

Audio Quality Enhancer (AQE)

• Pin Arrangement

1	DAIN	DALOUT	24
2	LRIN	DAROUT	23
3	BCKIN	LROUT	22
4	RSTB	вскоит	21
5	CGND	CGND	20
6	XIN -	DOVO	19
7	IGND	NC	18
8	ICVDD	NC	17
9	SCLK	NC	16
10	SDATA	NC	15
11	CSB	NC	14
12	NC	NC	13

Block Diagram



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Pin Function

No.	Name	I/O	Pin Function				
1	DAIN	1	Audio data input				
2	LRIN	I	/R clock input				
3	BCKIN	1	Bit clock input (48fs/64fs)				
4	RSTB	1	System reset "0" = Reset				
5	CGND	-	Ground (0V) for Core				
6	XIN	1	System clock input (128fs/192fs/256fs/384fs/512fs/768fs)				
7	IGND	-	Ground (0V) for Input Buffer				
8	ICVDD	T -	Power supply (3.3V) for Core and Input Buffer				
9	SCLK	1	Microcomputer interface clock input				
10	SDATA	1	Microcomputer interface data input				
11	CSB	1	Microcomputer interface chip select input "0" = Enable, "1" = Disenable				
12	NC						
13	NC	7					
14	NC	T	No connection				
15	NC] '					
16	NC						
17	NC						
18	OVDD	-	Power supply (3.3V) for Output Buffer				
19	OGND	-	Ground (0V) for Output Buffer				
20	CGND	-	Ground (0V) for Core				
21	BCKOUT	0	Bit clock output (48fs/64fs)				
22	LROUT	0	L/R clock output. WCLK output at PCM1704.				
23	DAROUT	0	R ch audio data output				
24	DALOUT	0	L ch audio data output or L/R ch multiplex output				

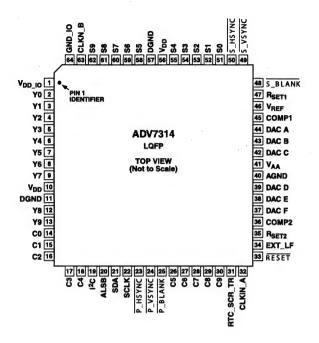
■ ADV7314KST (DVDM ASSY: IC903)

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Video Encoder IC

Pin Arrangement

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Pin Function

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Pin No.	Mnemonic	Input/Output	Function
11, 57	DGND	G	Digital Ground.
40	AGND	G	Analog Ground.
32	CLKIN_A	1	Pixel Clock Input for HD (74.25 MHz Only, PS Only (27 MHz), SD Only (27 MHz).
63	CLKIN_B	1	Pixel Clock Input. Requires a 27 MHz reference clock for Progressive Scar mode or a 74.25 MHz (74.1758 MHz) reference clock in HDTV mode. This clock is only used in dual modes.
36, 45	COMP2, COMP1	0	Compensation Pin for DACs. Connect 0.1 μF capacitor from COMP pin to V_{AA} .
44	DAC A	0	CVBS/Green/Y/Y Analog Output.
43	DAC B	0	Chroma/Blue/U/Pb Analog Output.
42	DAC C	o	Luma/Red/V/Pr Analog Output.
39	DAC D	0	In SD Only Mode: CVBS/Green/Y Analog Output. In HD Only mode and simultaneous HD/SD mode: Y/Green [HD] Analog Output.
38	DAC E	О	In SD Only Mode: Luma/Blue/U Analog Output. In HD Only mode and simultaneous HD/SD mode: Pr/Red Analog Output.
37	DAC F	0	In SD Only Mode: Chroma/Red/V Analog Output. In HD Only mode and simultaneous HD/SD mode: Pb/Blue [HD] Analog Output.
23	P_HSYNC	1	Video Horizontal Sync Control Signal for HD in Simultaneous SD/HD Mode and HD.
24	P_VSYNC	1	Video Vertical Sync Control Signal for HD in Simultaneous SD/HD Mode and HD.
25	P_BLANK	1	Video Blanking Control Signal for HD in Simultaneous SD/HD Mode and HI
48	S_BLANK	1/0	Video Blanking Control Signal for SD only.

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Pin No.	Mnemonic	Input/Output	Function
50	S_HSYNC	I/O	Video Horizontal Sync Control Signal for SD Only.
49	S_VSYNC	1/0	Video Vertical Sync Control Signal for SD Only.
2–9, 12–13	Y9–Y0	1	SD or Progressive Scan/HDTV Input Port for Y Data. Input port for interleaved progressive scan data. The LSB is set up on Pin Y0. For 8-bit data input, LSB is set up on Y2.
14–18,26–30	C9-C0	1	Progressive Scan/HDTV Input Port. In 4:4:4 Input mode, this port is used for the Cb[Blue/U] data. The LSB is set up on Pin C0. For 8-bit data input, LSB is set up on C2.
51-55,58-62	S9-S0	1	SD or Progressive Scan/HDTV Input Port for Cr [Red/V] Data in 4:4:4 Input Mode. LSB is set up on Pin S0. For 8-bit data input, LSB is set up on S2.
33	RESET	1	This input resets the on-chip timing generator and sets the ADV7314 into default register setting. RESET is an active low signal.
35, 47	R _{SET2} , R _{SET1}	I	A 3040 Ω resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.
22	SCLK	1	I ² C Port Serial Interface Clock Input.
21	SDA	I/O	I ² C Port Serial Data Input/Output.
20	ALSB		TTL Address Input. This signal sets up the LSB of the I ² C address. When this pin is tied low, the I ² C filter is activated, reducing noise on the I ² C interface.
1	V _{DD_IO}	Р	Power Supply for Digital Inputs and Outputs.
10, 56	V _{DD}	Р	Digital Power Supply.
41	VAA	Р	Analog Power Supply.
46	V _{REF}	I/O	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).
34	EXT_LF	1	External Loop Filter for the Internal PLL.
31	RTC_SCR_TR	1	Multifunctional Input. Real-time control (RTC) input, timing reset input, subcarrier reset input.
19	I ² C	1	This input pin must be tied high (VDD_O) for the ADV7314 to interface over the I ² C port.
64	GND_IO		Digital Input/Output Ground.

TERMINOLOGY

SD Standard definition video, conforming to ITU-R BT.601/656.

HD High definition video, such as progressive scan or HDTV.

PS Progressive scan video, conforming to SMPTE 293M, ITU-R BT.1358, BTA T-1004 EDTV2, BTA 1362

HDTV High definition television video, conforming to SMPTE 274M or SMPTE 296M.

YCrCb SD, HD, or PS component digital video.

YPrPb HD, SD, or PS component analog video.

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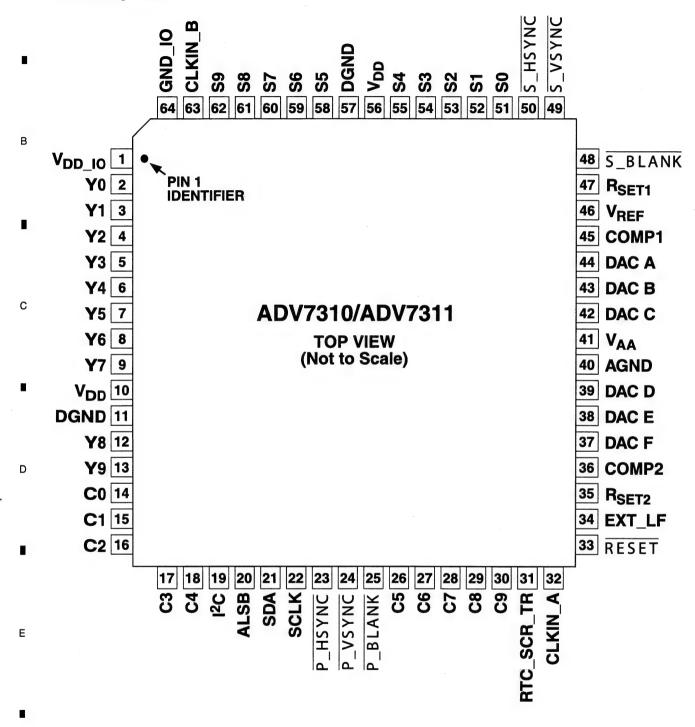
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■ ADV7310KST (DVDM ASSY: IC903)

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Video Encoder IC

Pin Arrangement



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DV-S

Pin Function

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Mnemonic	Input/Output	Function	
DGND	G	Digital Ground.	
AGND	G	Analog Ground.	
CLKIN_A	1	Pixel Clock Input for HD (74.25 MHz Only, PS Only (27 MHz), SD Only (27 MHz).	
CLKIN_B	1	Pixel Clock Input. Requires a 27 MHz reference clock for progressive scan mode or a 74.25MHz (74.1758 MHz) reference clock in HDTV mode. This clock is only used in dual modes.	
COMP1,2	0	Compensation Pin for DACs. Connect 0.1 µF capacitor from COMP pin to VAA.	
DAC A	0	CVBS/Green/Y/Y Analog Output.	
DAC B	0	Chroma/Blue/U/Pb Analog Output.	
DAC C	0	Luma/Red/V/Pr Analog Output.	
DAC D	0	In SD Only Mode: CVBS/Green/Y Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Y/Green [HD] Analog Output.	
DAC E	0	In SD Only Mode: Luma/Blue/U Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pr/Red Analog Output.	
DAC F	0	In SD Only Mode: Chroma/Red/V Analog Output; in HD Only Mode and Simultaneous HD/SD Mode: Pb/Blue [HD] Analog Output.	
P_HSYNC	1	Video Horizontal Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.	
P_VSYNC	1	Video Vertical Sync Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.	
P_BLANK	1	Video Blanking Control Signal for HD in Simultaneous SD/HD Mode and HD Only Mode.	
S_BLANK	1/0	Video Blanking Control Signal for SD Only.	
S_HSYNC	1/0	Video Horizontal Sync Control Signal for SD Only.	
S_VSYNC	1/0	Video Vertical Sync Control Signal for SD Only.	
Y9–Y0	1	SD or Progressive Scan/HDTV Input Port for Y Data. Input port for interleaved progressive sedata. The LSB is set up on Pin Y0. For 8-bit data input, LSB is set up on Y2.	
C9-C0	1	Progressive Scan/HDTV Input Port 4:4:4 Input Mode. This port is used for the Cb[Blue/U] data The LSB is set up on pin C0. For 8-bit data input, LSB is set up on C2.	
S9-S0	1	SD or Progressive Scan/HDTV Input Port for Cr[Red/V] data in 4:4:4 input mode. LSB is se on pin S0. For 8-bit data input, LSB is set up on S2.	
RESET	1	This input resets the on-chip timing generator and sets the ADV7310/ADV7311 into default register setting. RESET is an active low signal.	
R _{SET1,2}	1	A 3040 Ω resistor must be connected from this pin to AGND and is used to control the amplitudes of the DAC outputs.	
SCLK		I ² C Port Serial Interface Clock Input.	
SDA	1/0	I ² C Port Serial Data Input/Output.	
ALSB	1	TTL Address Input. This signal sets up the LSB of the I ² C address. When this pin is tied low, the I ² C filter is activated, which reduces noise on the I ² C interface.	
V _{DD_10}	P	Power Supply for Digital Inputs and Outputs.	
/ _{DD}	P	Digital Power Supply.	
/ _{AA}	Р	Analog Power Supply.	
/ _{REF}	1/0	Optional External Voltage Reference Input for DACs or Voltage Reference Output (1.235 V).	
EXT_LF	1	External Loop Filter for the Internal PLL.	
RTC_SCR_TI	FI I	Multifunctional Input. Real time control (RTC) input, timing reset input, subcarrier reset input.	
 1²C	1	This input pin must be tied high (VDD_IO) for the ADV7310/ADV7311 to interface over the I ² C port.	
GND_IO		Digital Input/Output Ground.	

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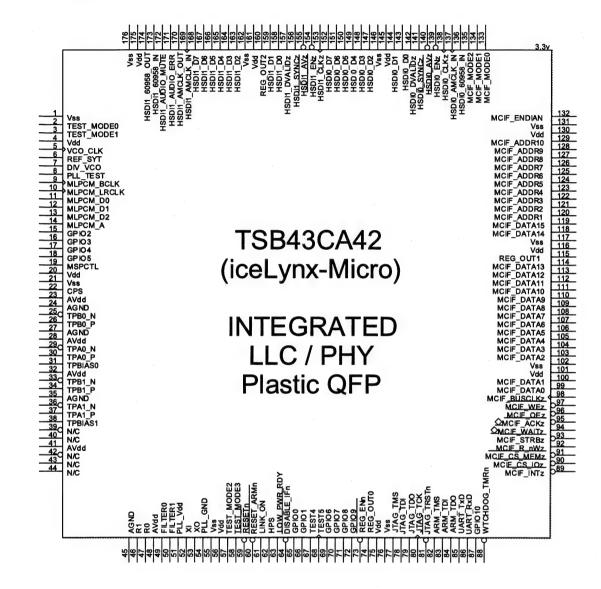
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- IEEE1394 PHY LINK
- Pin Arrangement



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• Pin Function

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Pin Name	Pin No	1/0	Description
Power & Ground Pin	ıs		ut varetsiin 12 th all an muterius assaul 2004 dee plant held belinkeeld veeld keeld keeld and butter. All ever
DISABLE_IFZ	64	I	Interface Disable. When asserted, the interfaces are put into a Hi-Z state. Interfaces include: ex-CPU, HSDI, GPIO, and WTCH DG TMRZ.
HPS	62		Host Power Status. This indicates the power status of the external system to iceLynx-Micro. A rising edge indicates the system CPU has been turned ON. (The internal ARM should wake up.) A falling edge indicates the system CPU has been turned OFF. (The internal ARM decides if power down is necessary.)
LOW_PWR_RDY	63	0	Output to system to indicate iceLynx-Micro is ready to go into a low power state. The ARM and WTCH_DG_TMRZ control this pin.
WTCH_DG_TMRZ	88	0	Watch Dog Timer (for the ARM.) iceLynx-Micro hardware asserts this pin whenever ARM software has not updated the Timer2 register within the allowed time period.
RESET ARMZ	60	1	ARM reset. This signal resets the internal ARM processor.
RESETZ	59	1/0	Device reset. This signal resets all logic. This includes the PHY, Link core, memory, the ARM, and random logic.
VSS	1, 21, 55, 76, 102 117 131, 146, 162 176		Digital Ground.
AGND	24, 27, 35, 45,		Analog Ground.
PLL GND	54		PLL Ground.
VDD	4, 20, 56, 75, 101 116, 130 145, 161		Digital Power Supply. Must be set to 3.3V nominal.

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Pin Name	Pin No	1/0	Description
FIII Name	FILINO	1/0	Description
AVDD	23,		Analog Power Supply. Must be set to 3.3V nominal.
	28,		
	32,		
	41,		
	48		
PLL_VDD	51		PLL Power Supply. Must be set to 3.3V nominal.
Regulator Pins			
REG_ENZ	73	1	Internal Regulator Enable. The iceLynx-Micro core voltage is
			1.8V. Internal regulators are used to regulate the 3.3V VDD
DEC OUT	174	+-	inputs to 1.8V. This pin enables the regulators.
REG_OUT0	74	0	1.8V Regulator Output. This pin should be connected to
REG_OUT1	115	0	ground using a 0.1uF capacitor. 1.8V Regulator Output. This pin should be connected to
11La_0011	1 ' ' '	١٠	ground using a 0.1uF capacitor.
REG_OUT2	160	0	1.8V Regulator Output. This pin should be connected to
1124_0012	1 100	"	ground using a 0.1uF capacitor.
External CPU Interfac	ce Pins		y desired and the second and the sec
MCIF ACKZ	95	1/0	MCIF Acknowledge pin. Default active low. iceLynx-Micro
_			asserts this signal if it has completed the MCIF request. This
	1	İ	signal is always driven. This signal is used for the following
			modes:
	1		• 68000 + Wait I/O Access
			MPC850 I/O Access
			In Sorial MCIE Mode, this pip is used for the Sorial Board
		1	In Serial MCIF Mode, this pin is used for the Serial Read Acknowledge (SMCIF_RACKZ.)
	Į.		Acknowledge (GMOII _TIAOR2.)
MCIF ADDR1	120	1	MCIF Address 1 pin. This data pin is the least significant bit of
_			the MCIF Address Bus.
			MCIF_ADDR0 is internally grounded. Only 16-bit addressing
			is allowed. MCIF_ADDR1 should be connected to the
			Address1 signal of the system CPU.
MCIF_ADDR10	129		MCIF Address 10 pin. This data pin is the most significant bit
14015 45555	-	+	of the MCIF Address Bus.
MCIF ADDR2	121	+!	MCIF Address 2 pin
MCIF ADDR3	122	+-	MCIF Address 3 pin
MCIF ADDR4	123	+-	MCIF Address 4 pin
MCIF ADDR5 MCIF ADDR6	124	+-	MCIF Address 5 pin
MCIF ADDR6	125	+	MCIF Address 6 pin
MCIF ADDR7	126 127	+-	MCIF Address 7 pin MCIF Address 8 pin
MCIF ADDR9	128	+-	MCIF Address 8 pin MCIF Address 9 pin
INIOII WODUS	1120		I MOIL Address a bill

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Pin Name	Pin No	1/0	Description
MCIF_BUSCLK	98	1	MCIF Bus Clock. This pin is only used for the MCIF
		1	synchronous mode. (MPC850 I/O Access) and the Memory Access.
	,		This signal should be tied high if not used.
		·	
			In Serial MCIF Mode, this pin is used for the Serial Write Clock (SMCIF_WCLK.)
MCIF_CS_IOZ	90		MCIF Chip Select for all I/O MCIF modes.
			In Serial MCIF Mode, this pin is used for the Serial Write
			Request (SMCIF_WREQZ.)
MCIF_CS_MEMZ	91	1/0	MCIF Chip Select for the Memory MCIF mode.
			In Serial MCIF Mode, this pin is used for the Serial Write
			Acknowledge (SMCIF_WACKZ.)
MCIF_DATA0	99	I/O	MCIF DATA 0 pin. This data pin is the least significant bit of
			the MCIF Data Bus.
			In Serial MCIF Mode, this pin is used for the Serial Read Data
			(SMCIF_RDATA.)
MCIF_DATA1	100	I/O	MCIF DATA 1 pin.
MCIF_DATA10	111	1/0	MCIF DATA 10 pin.
MCIF_DATA11	112	I/O I/O	MCIF DATA 11 pin. MCIF DATA 12 pin.
MCIF_DATA12	113	"	MOIF DATA 12 pill.
MCIF DATA13	114	1/0	MCIF DATA 13 pin.
MCIF_DATA14	118	1/0	MCIF DATA 14 pin.
MCIF_DATA15	119	1/0	MCIF DATA 15 pin. This data pin is the most significant bit of
_			the MCIF Data Bus.
MCIF_DATA2	103	1/0	MCIF DATA 2 pin.
MCIF_DATA3	104	1/0	MCIF DATA 3 pin.
MCIF_DATA4 MCIF_DATA5	105	1/0	MCIF DATA 4 pin.
MCIF_DATAS	106	1/0	MCIF DATA 5 pin. MCIF DATA 6 pin.
MCIF_DATA7	108	1/0	MCIF DATA 7 pin.
MCIF DATA8	109	1/0	MCIF DATA 8 pin.
MCIF DATA9	110	1/0	MCIF DATA 9 pin.
MCIF_ENDIAN	132	T	MCIF Endian Pin. This sets the Endianess for accesses
_			between the external CPU and the internal iceLynx-Micro
			memory. This pin sets Endianess for all MCIF modes and the
			Serial MCIF mode.
			When set to a logical 0, data is read/written to the ex-CPU
			exactly as it is stored in iceLynx-Micro memory. (Big Endian)
			When set to a logical 1, data is swapped on half-word and byte boundaries before it is read/written to the ex-CPU. (Lit∎e
			byte boundaries before it is read/written to the ex-CPO. (Little Endian)

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Pin Name	Pin No	1/0	Description
MCIF_INTZ	89	0	MCIF Interrupt. This signal is push-pull. (always asserted) It does not require a pull-up resistor.
MCIF MODE0	133	T	MCIF Mode 0. Used to select MCIF mode.
MCIF_MODE1	134	T	MCIF Mode 1. Used to select MCIF mode.
MCIF_MODE2	135	1	MCIF Mode 2. Used to select MCIF mode.
MCIF_OEZ	96		MCIF Output Enable. Default active low. This input pin indicates if the system CPU wants to perform a MCIF read access. This signal is used for the following modes: • SH-3 I/O Access • M16C/62 I/O Access • Memory Access This signal should be tied high if not used.
MCIF_RW	92	1	MCIF Read/Write pin. Default value for read is a logical 1. Default value for write is a logical 0. In Serial MCIF Mode, this pin is used for the Serial Write Data (SMCIF WDATA.)
MCIF_STRBZ	93	1	MCIF Strobe pin. Default active low. This pin is used (along with MCIF_CS_IOZ) to validate the MCIF access. This signal is used for the following modes: • 68000 + Wait I/O Access • MPC850 I/O Access • When not used, this pin should be tied high. In Serial MCIF Mode, this pin is used for the Serial Read Clock (SMCIF_RCLK.)
MCIF_WAIT	94	0	MCIF Wait pin. Default active high. iceLynx-Micro asserts this signal if it is not ready to service an MCIF request. When not asserted, this signal is in high-Z state. This signal is used for the following modes: • 68000 + Wait I/O Access • SH-3 I/O Access • M16C/62 I/O Access In Serial MCIF Mode, this pin is used for the Serial Read Request (SMCIF_RREQZ.)
MCIF_WEZ Universal Asynchrono	97 pus Receive	r Tran	
UART_RxD	86		UART receive port. Data from the system is input to the
UART_TxD	85	0	UART buffer using this pin. UART transmit port. Data from the UART buffer is output to the system using this pin.

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Pin Name	Pin No	1/0	Description
Joint Test Action Gr	oup (JTAG)	& ARM	Pins
JTAG_TCK	80	1	JTAG Clock pin. Both the boundary scan and ARM JTAG uses this input for the JTAG clock.
JTAG TDI	78	ı	JTAG Test Data Input pin
JTAG TDO	79	0	JTAG Test Data Output pin
JTAG TMS	77	ı	JTAG Test Mode Selector pin.
JTAG_TRST	81	I	JTAG Reset Pin. Both the boundary scan and ARM JTAG uses this input for the JTAG clock.
ARM JTAG TDI	83	1	ARM JTAG Test Data Input pin
ARM_JTAG_TDO	84	0	ARM JTAG Test Data Output pin
ARM_JTAG_TMS	82	ı	ARM JTAG Test Mode Selector pin
I ² C Serial Bus Pins			
SCL	68	1/0	I ² C Clock Pin. This pin should be tied to ground if no EEPOM is used. For EEPROM write operations, the GPIO8 settings are muxed with the SCL pin. Software can manipulate the GPIO8 register settings in order to perform a write.
SDA	67	I/O	I ² C Data Pin For EEPROM write operations, the GPIO9 settings are muxed with the SDA pin. Software can manipulate the GPIO9 register settings in order to perform a write.
General Purpose Inp	out/Out Pins	(GPIO)	
GPIO0	65	I/O	GPIO0. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO1	66	I/O	GPIO1. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO2	15	I/O	GPIO2. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO3	16	I/O	GPIO3. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO4	17	I/O	GPIO 4. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO5	18	I/O	GPIO 5. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO6	69	I/O	GPIO6. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO7	70	I/O	GPIO7. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.

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Pin Name		1/0	Description
GPIO8	71	I/O	GPIO8. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO9	72	1/0	GPIO9. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
GPIO10	87	I/O	GPIO10. Can be programmed as general-purpose input, general-purpose output, or specific function. Power-up default is input.
Physical Layer Pir	าร		
TPA0_N TPA1_N TPA2_N TPA0_P TPA1_P TPA2_P	29 36 42 30 37 43	I/O	Twisted Pair A Differential Signal Terminals. For an unused port, TPAN and TPAP signals can be left open.
TPB0_N TPB1_N TPB2_N TPB0_P TPB1_P TPB2_P	25 33 39 26 34 40	I/O	Twisted Pair B Differential Signal Terminals. For an unused port, TPBN and TPBP signals can be left open.
TPBIAS0 TPBIAS1 TPBIAS2	31 38 44	I/O	Twisted Pair Bias Output. These signals provide the 1.86V nominal bias voltage needed for proper operation of the twisted pair driver and receivers for signaling an lactive connection to a remote node. For an unused port, TPBIAS can be left unconnected.
R1 R0	46 47	-	Current Setting Resistors. These pins are connected to external resistors to set the internal operating currents and cable driver output currents. A resistance of $6.34k\Omega \pm 1\%$ is required to meet the IEEE 1394-1995 output voltage limits.
FILTER0 FILTER1	49 50	1/0	PLL Filter Terminals. These terminals are connected to an external capacitor to form a lag-lead filter required for stable operation of the internal frequency-multiplier PLL, which is using the crystal oscillator. A 0.1 μF± 10% capacitor is the only external component required to complete this filter.
XI XO	52 53	-	Crystal Oscillator Inputs. These terminals connect to a 24.576 MHz parallel resonant fundamental mode crystal. The optimum values for the external shunt capacitors are dependent on the crystal used.
CPS	21	-	Cable Power Status. Input to iceLynx-Micro used to detect if cable power is present. This pin should be connected to the cable power through 390 $k\Omega$ resistor.
MSPCTL	19	1	
LINKON	61	0	Link On output. This signal is asserted whenever LPS is low and a Link On packet is received from the 1394 bus.
High Speed Data I	nterface (HSD	l) Port 0	
HSDI_60958_IN	173		60958 Data Input.

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Pin Name	Pin No	1/0	Description
	100		
HSDI_60958_OUT	179	0	60958 Data Output
			This signal is also used as FLWCTRL_DVALID in Flow Control Data Valid mode.
HSDI0_60958_IN	136	I	60958 Data Input.
HSDI0_AMCLK_IN	137		Audio Master Clock Input. This clock is used to decode the bi- phase encoding of 60958 data.
			This pin is also used to input the 1.5*BCLK for Flow Control mode.
HSDI0_AV	140	0	HSDI Port 0 Available. Programmable. Default active low. For receive from 1394, this signal indicates if a 1394 packet is available in the receive buffer for reading. The HSDI_AV signal for MPEG2 data also depends on time stamp based release. For transmit onto 1394, this signal can be used to indicate buffer level in HSDI TX mode 8 and 9 by programming a CFR. If the buffer level is above a programmed level, HSDI_AV will be asserted.
HSDI0_CLK	138	I	HSDI Port 0 Clock. Programmable. Default rising edge sample. This clock is used to operate the HSDI port 0 logic. In parallel mode, the maximum clock is 27MHz. In serial mode, the maximum clock is 70MHz. This signal is output to HSDI1_CLK in pass thru mode. This signal can be used as HSDI0_MLPCM_BCLK for DVD-Audio Transmit.
HSDI0_D0	143	1/0	HSDI Port 0 Data 0 Pin. Data 0 is the least significant bit on the HSDI data bus. In serial mode, only HSDI0_D0 is used. This signal is output to HSDI1_D0 in pass thru mode. This signal can be used as HSDI0_MLPCM_D0 for DVD-Audio Transmit.
HSDI0_D1	144	I/O	HSDI Port 0 Data 1 Pin This signal is output to HSDI1_D1 in pass thru mode. This signal can be used as HSDI0_MLPCM_D1 for DVD-Audio Transmit.
HSDI0_D2	147	I/O	HSDI Port 0 Data 2 Pin This signal is output to HSDI1_D2 in pass thru mode. This signal can be used as HSDI0_MLPCM_D2 for DVD-Audio Transmit.
HSDI0_D3	148	I/O	HSDI Port 0 Data 3 Pin This signal is output to HSDI1_D3 in pass thru mode. This signal can be used as HSDI0_MLPCM_A for DVD-Aud o Transmit.
HSDI0_D4	149	I/O	HSDI Port 0 Data 4 Pin This signal is output to HSDI1 D4 in pass thru mode

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Pin Name	Pin No	1/0	Description
HSDI0_D5	150	I/O	HSDI Port 0 Data 5 Pin This signal is output to HSDI1_D5 in pass thru mode
HSDI0_D6	151	I/O	HSDI Port 0 Data 6 Pin This signal is output to HSDI1 D6 in pass thru mode
HSDI0_D7	152	I/O	HSDI Port 0 Data 7 Pin. Data 0 is the most significant bit on the HSDI data bus. This signal is output to HSDI1_D7 in pass thru mode
HSDIO_DVALID	142	I/O	HSDI Port 0 Data Valid Pin. Programmable. Default active high. This pin indicates if data on the HSDI data bus valid for reading or writing. For transmit onto 1394, this signal is provided by the system with the data. For receive from 1394, iceLynx-Micro provides this signal with the data. For HSDI DV modes, this signal is used as HSDI0_FrameSync indicating DV frame boundary. This signal is output to HSDI1_DVALID in pass thru mode If not used in transmit mode, this signal can be tied low.
HSDIO_EN	139	I	HSDI Port 0 Enable. Programmable. Default active low. Input by the system to enable the HSDI for both transmit and receive from 1394. If not used, this signal can be tied enabled (low or high depending on the polarity set). The application can use HSDI_DVALID or HSDI_SYNC to validate the HSDI data. This signal can be used as HSDI0_MLPCM_LRCLK for DVD-Audio Transmit.
HSDIO_SYNC	141	I/O	HSDI Port 0 Sync Signal. Programmable. Default active high. This signal is used to indicate the start of packet. For transmit onto 1394, this signal is provided by the system with the data. For receive from 1394, iceLynx-Micro provides this signal with the data. This signal is output to HSDI1_SYNC in pass thru mode. If not used in transmit mode, this signal can be tied low or high depending on the polarity.

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Pin Name	Pin No	1/0	Description
HSDI1_AMCLK_IN	169	1	Audio Master Clock Input. This clock is used to decode the biphase encoding of 60958 data.
			This pin is also used to input the 1.5*BCK for Flow Control mode.
			MLPCM Interface, HSDI1 Audio Port, and HSDI1 video port share buffer 1. Only one interface can access the buffer at a time.
HSDI1_AMCLK_OUT	170	0	Audio Master Clock Output. This clock is derived from the VCO_CLK input. 60958 data output from iceLynx-Micro is biphase encoded using this clock.
HSDI1_AUDIO_ERR	171	0	Audio Error Signal. iceLynx-Micro asserts this signal whenever an Audio Error condition occurs. (Receive from 1394 only.)
HSDI1_AUDIO_MUTE	172	0	Audio Mute Status. iceLynx-Micro asserts this signal whenever an Audio Mute condition has occurred, and hardware has muted the HSDI1 audio interface. (Receive from 1394 only.)
HSDI1_AV	155	0	HSDI Port 1 Available. Programmable. Default active low.
			For receive from 1394, this signal indicates if a 1394 packet is available in the receive buffer for reading. The HSDI_AV signal for MPEG2 data also depends on time stamp based release. For transmit onto 1394, this signal can be used to indicate
			buffer level in HSDI TX mode 8 and 9 by programming a CFR. This pin can be used to indicate buffer level in transmit mode by programming a CFR. If the buffer level is above a programmed level, HSDI_AV is asserted.
HSDI1_CLK	153	I/O	HSDI Port 1 Clock. Programmable. Default rising edge sample. This clock is used to operate the HSDI port 1 logic. In parallel mode, the maximum clock is 27MHz. In serial mode, the maximum clock is 70MHz.
			This signal can be used as HSDI1_SACD_MCLK for SACD Transmit and Receive.
			MLPCM Interface, HSDI1 Audio Port, and HSDI1 video port share buffer 1. Only one interface can access the buffer at a time.
HSDI1_D0	158	I/O	HSDI Port 1 Data 0 Pin. Data 0 is the least significant bit on the HSDI data bus. In serial mode, only HSDI0_D0 is used.
			This signal can be used as HSDI1_SACD_D0 for SACD Transmit and Receive.

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Pin Name	Pin No	1/0	Description
HSDI1_D1	159	1/0	HSDI Port 1 Data 1 Pin
			This signal can be used as HSDI1_SACD_D1 for SACD Transmit and Receive.
HSDI1_D2	163	1/0	HSDI Port 1 Data 2 Pin
			This signal can be used as HSDI1_SACD_D2 for SACD Transmit and Receive.
HSDI1_D3	164	1/0	HSDI Port 1 Data 3 Pin
			This signal can be used as HSDI1_SACD_D3 for SACD Transmit and Receive.
HSDI1_D4	165	1/0	HSDI Port 1 Data 4 Pin
			This signal can be used as HSDI1_SACD_D4 for SACD Transmit and Receive.
HSDI1_D5	166	1/0	HSDI Port 1 Data 5 Pin
			This signal can be used as HSDI1_SACD_D5 for SACD Transmit and Receive.
HSDI1_D6	167	1/0	HSDI Port 1 Data 6 Pin
			This signal can be used as HSDI1_SACD_A for SACD Transmit and Receive.
HSDI1_D7	168	I/O	HSDI Port 1 Data 7 Pin. Data 0 is the most significant bit on the HSDI data bus.
HSDI1_DVALID	157	1/0	HSDI Port 1 Data Valid Pin. Programmable. Default active high. This pin indicates if data on the HSDI data bus valid for
			reading or writing.
			For transmit onto 1394, this signal is provided by the system with the data.
			For receive from 1394, iceLynx-Micro provides this signal with
			the data. For HSDI DV modes, this signal is used as
			HSDIO_FrameSync indicating DV frame boundary.
			If not upod in transmit made, this signal can be died to
HSDI1_EN	154	+	If not used in transmit mode, this signal can be tied low. HSDI Port 1 Enable. Programmable. Default active low.
	104		Input by the system to enable the HSDI for both transmit and receive from 1394.
			If not used, this signal can be tied enabled (low or high
			depending on the polarity set). The application can use HSDI DVALID or HSDI SYNC to validate the HSDI data.

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Pin Name	Pin No	1/0	Description
HSDI1_SYNC	156	I/O	HSDI Port 1 Sync Signal. Programmable. Default active high. This signal is used to indicate the start of packet For transmit onto 1394, this signal is provided by the system with the data. For receive from 1394, iceLynx-Micro provides this signal with the data. If not used in transmit mode, this signal can be tied low or high depending on the polarity.
			This signal can be used as HSDI1_SACD_FRAME for SACD Transmit and Receive.
DVD-Audio Interface F	Pins		
MLPCM_A	14	I/O	Audio MLPCM Interface Ancillary Data. Ancillary data is input/output using this pin. For DVD-Audio, MLPCM_LRCLK determines if Ancillary Left or Ancillary Right data is present. This signal also functions as FLWCTL_A in Flow Control mode
MLPCM_BCLK	9	I/O	Audio MLPCM Interface Bit Clock. Multiple functions: DVD Audio BCK (I) DVD Audio BCK (O) Flow Control BCK (I/O) MLPCM Interface, HSDI1 Audio Port, and HSDI1 video port share buffer 1. Only one interface can access the buffer at a time.
MLPCM_D0	11	I/O	Audio MLPCM Interface D0. Contains Channel 1 and Channel 2 information. MLPCM_LRCLK determines which channel is present. This signal also functions as FLWCTL_D0 in Flow Control mode.
MLPCM_D1	12	I/O	Audio MLPCM Interface D1. Contains Channel 3 and Channel 4 information. MLPCM_LRCLK determines which channel is present. This signal also functions as FLWCTL_D0 in Flow Control mode
MLPCM_D2	13	1/0	Audio MLPCM Interface D2. Contains Channel 5 and Channel 6 information. MLPCM_LRCLK determines which channel is present. This signal also functions as FLWCTL_D0 in Flow Control mode
MLPCM_LRCLK	10	I/O	Audio MLPCM Interface Left-Right Clock. Multiple functions: DVD Audio LRCLK (I) DVD Audio LRCLK (O) Flow Control LRCLK (I/O)

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Pin Name	Pin No	1/0	Description
Phase Lock Loops	Pins		
DIV_VCO	7	0	Output for External Phase Detector. This signal is the divided VCO_CLK. It used by the external phase detector to compare with the REF_SYT signal. The divide ratios are setup in CFR.
PFD	8	0	Output from Internal Phase Detector. This signal can feed directly into the LPF and VCO if the internal phase detector is used.
REF_SYT	6	0	Output for External Phase Detector. This signal represents the SYT match for received audio or DV packets. The phase detector uses it as input to detect differences between the SYT match and the VCO clock.
VCO_CLK	5	I	Input from VCO. This is used to generate internal audio and DV clocks for receive clock recovery. Audio Frequency: 33.868MHz or 36.864MHz. DV Frequency: 30.72MHz
Test Mode Pins			
TEST_MODE0	2	I/O	Test Mode. Used for Internal TI testing. Should be tied low for normal operation.
TEST_MODE1	3	I/O	Test Mode. Used for Internal TI testing. Should be tied low for normal operation.
TEST_MODE2 TEST_MODE3	57 58	1/0	Test Mode. Used for Internal TI testing. Should be tied low for normal operation.

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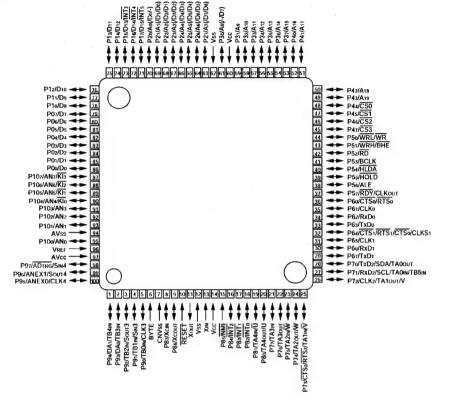
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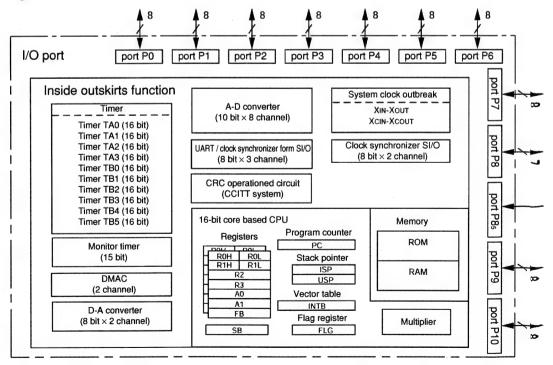
■ PD5787A (DVDM ASSY : IC805)

HOST CPU

Pin Arrangement



Block Diagram



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CD0040AF (DVDM ASSY : IC901)

• Progressive & Hi-Quality Video Encoder (PROU)

Pin Arrangement

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```
ovdd
ovss
TEST4
WE
WE
WE
WE
CAS
DQM
RAS
ovss
ovdd
MA10
MA10
ovdd
cvss
TEST5
ovss
           cvdd
        109
                                                                          72 ivdd
   MD7
        110
                                                                             cvdd
   MD8
        111
                                                                           70
                                                                             ovss
                                                                             RFFI
   MD6
        112
                                                                          69
                                                                             FILM
                                                                          68
   MD9
        113
                                                                          67
   ovdd
        114
                                                                             CO9
   ovss
                                                                             CO8
   MD5
                                                                          65
                                                                             CO7
        116
                                                                          64
                                                                             CO6
   MD10
        117
                                                                          63
                                                                             CO<sub>5</sub>
   MD4
        118
                                                                          62
   MD11
        119
                                                                             ovss
   ovdd
        120
                                                                          61
                                                                             ovdd
   ovss
        121
                                                                          60
                                                                             CO4
   MD3
                                                                          59
                                                                             CO3
        122
                                                                          58
57
56
   MD12
        123
                                                                             CO2
                                                                             CO1
   MD2
        124
   MD13
        125
                                                                             COO
                                                                          55
   ovss
        126
                                                                             cvss
        127
                                                                             cvss
   cvss
                                                                          53
52
51
50
   ovdd
        128
                                                                             ovdd
   MD1
        129
                                                                             YO0
                                                                              YO1
   MD14
        130
   MD0
        131
                                                                             YO2
   MD15
        132
                                                                          49
                                                                              YO3
    SLV
        133
                                                                          48
                                                                             YO4
   RFFO
        134
                                                                             ovss
                                                                          46
   SDA
        135
                                                                             ovdd
   SCL
        136
                                                                          45
                                                                             YO5
   SRN
                                                                          44
                                                                              YO6
        137
                                                                          43
   ovss
        138
                                                                             YO7
   cvdd
        139
                                                                          42
                                                                             YO8
PLL VDD
        140
                                                                          41
                                                                              YO9
  VPDX
                                                                          40
                                                                             CLKO
        141
  TEST6
                                                                             TEST2
        142
                                                                          39
PLL_GND
        143
                                                                          38
                                                                             TEST1
        144
   ivdd
                                                                             cvdd
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• Pin Function

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No.	Name	1/0	Function
1	OVDD	_	VDD (3.3 V) for I/O
2	CLKI	T I	27-MHz system clock input
3	TEST7	ı	Input terminal dedicated for testing. To be connected to ground.
4	PLL_EN	ı	PLL enable input terminal. The signal level is set to high once the power-supply voltage and the CLK stabilize.
5	PIO PIO	1	ITU-R BT.656/601 input terminal (LSB)
6	PI1	ī	ITU-R BT.656/601 input terminal
7	PI2	ī	ITU-R BT.656/601 input terminal
8	PI3	ı	ITU-R BT.656/601 input terminal
9	PI4	ı	ITU-R BT.656/601 input terminal
10	P15	ı	ITU-R BT.656/601 input terminal
11	PI6	1	ITU-R BT.656/601 input terminal
12	PI7	ı	ITU-R BT.656/601 input terminal
13	PI8		ITU-R BT.656/601 input terminal
14	PI9	1	ITU-R BT.656/601 input terminal (MSB)
15	NHSI		Horizontal sync input terminal
16	NVSI		Vertical sync input terminal
17	ovss	_	Digital GND
18	THMD		Through-mode setting terminal. Normally to be connected to ground.
19	cvss	 	Digital GND
20	NVSO	0	Vertical sync output terminal (Interlace or Progressive)
21	NHSO	0	Horizontal sync output terminal (Interlace or Progressive)
22	PO9	1/0	ITU-R BT.656/601 output terminal, or clamp-signal output and ITU-R BT.601 input terminal (MSB)
23	PO8	1/0	ITU-R BT.656/601 output terminal, or active-signal output and ITU-R BT.601 input terminal
24	PO7	1/0	ITU-R BT.656/601 output terminal, or blanking-signal output and ITU-R BT.601 input terminal
25	PO6	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
26	OVDD	-	VDD (3.3 V) for I/O
27	ovss	_	Digital GND
28	PO5	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
29	PO4	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
30	PO3	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
31	PO2	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
32	PO1	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal
33	PO0	1/0	ITU-R BT.656/601 output terminal and ITU-R BT.601 input terminal (LSB)
34	TEST0	1	Input terminal dedicated for testing. To be connected to ground.
35	ovss	<u> </u>	Digital GND
36	OVDD		VDD (3.3 V) for I/O
37	CVDD	_	VDD (2.5 V) for the core
38	TEST1		Input terminal dedicated for testing. To be connected to ground.
39	TEST2	Ti.	Input terminal dedicated for testing. To be connected to ground.
40	CLKO	0	27-MHz clock output
41	YO9	0	ANSI/SMPTE 293 M output terminal (Y, MSB)
42	YO8	0	ANSI/SMPTE 293 M output terminal (Y)
43	Y07	0	ANSI/SMPTE 293 M output terminal (Y)
44	YO6	0	ANSI/SMPTE 293 M output terminal (Y)
45	YO5	0	ANSI/SMPTE 293 M output terminal (Y)
46	OVDD	-	VDD (3.3 V) for I/O
47	OVSS		Digital GND
47	YO4	- 0	ANSI/SMPTE 293 M output terminal (Y)

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Na	Name	1/0	Franction	
No.	Name	1/0	Function	
49	Y03	0	ANSI/SMPTE 293 M output terminal (Y)	
50	Y02	0	ANSI/SMPTE 293 M output terminal (Y)	
51	Y01	0	ANSI/SMPTE 293 M output terminal (Y)	
52	Y00		ANSI/SMPTE 293 M output terminal (Y, LSB)	
53	OVDD		VDD (3.3 V) for I/O	
54	OVSS		Digital GND	
55	OVSS		Digital GND	
56	C00	0	ANSI/SMPTE 293 M output terminal (Cb/Cr, LSB)	
57	C01	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
58	C02	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
59	C03	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
60	C04	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
61	OVDD		VDD (3.3 V) for I/O	
62	OVSS		Digital GND	
63	C05	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
64	C06	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
65	C07	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
66	C08	0	ANSI/SMPTE 293 M output terminal (Cb/Cr)	
67	C09	0	ANSI/SMPTE 293 M output terminal (Cb/Cr, MSB)	
68	FILM	0	Film-detection flag output terminal	
69	RFFI	1	MPEG data (repeat_first_field flag) input terminal	
70	OVSS	<u> </u>	Digital GND	
71	CVDD		VDD (2.5 V) for the core	
72	IVDD		VDD (3.3 V) for I/O	
73	OVDD		VDD (3.3 V) for I/O	
74	MD19	1/0	SDRAM input/output terminal	
75	MD18	1/0	SDRAM input/output terminal	
76	M D17	1/0	SDRAM input/output terminal	
77	MD16	1/0	SDRAM input/output terminal	
78	OVDD	_	VDD (3.3 V) for I/O	
79	OVSS		Digital GND	
80	MA3	0	SDRAM address output terminal	
81	MA4	0	SDRAM address output terminal	
82	MA2	0	SDRAM address output terminal	
83	MA5	0	SDRAM address output terminal	
84	OVDD		VDD (3.3 V) for I/O	
85	OVSS		Digital GND	
86	MA1	0	SDRAM address output terminal	
87	MA6	0	SDRAM address output terminal	
88	MAO	0	SDRAM address output terminal (LSB)	
89	MA7	0	SDRAM address output terminal	
90	OVSS	_	Digital GND	
91	IVSS	_	Digital GND	
92	CVSS	_	Digital GND	
93	OVDD	-	VDD (3.3 V) for I/O	
94	MA10	0	SDRAM address output terminal	
95	MA8	0	SDRAM address output terminal	
96	MA11	0	SDRAM address output terminal (MSB)	

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No.	Name	I/O	Function	
97	MA9	0	SDRAM address output terminal	
98	OVDD	_	VDD (3.3 V) for I/O	
99	ovss	-	Digital GND	
100	RAS	0	SDRAM "Row Address Strobe" command output terminal	
101	DQM	0	SDRAM DQM output terminal. The CKE terminal of the SDRAM must be connected to the power source for the SDRAM.	
102	CAS	0	SDRAM "Column Address Strobe" command output terminal	
103	MCLK	0	SDRAM clock output terminal (54 MHz)	
104	WE	0	SDRAM "Write Enable" command output terminal	
105	TEST3	ī	Input terminal dedicated for testing. To be connected to ground.	
106	TEST4	T	Input terminal dedicated for testing. To be connected to ground.	
107	ovss	_	Digital GND	
108	OVDD	T -	VDD (3.3 V) for I/O	
109	CVDD		VDD (2.5 V) for the core	
110	MD7	1/0	SDRAM data input/output terminal	
111	MD8	1/0	SDRAM data input/output terminal	
112	MD6	1/0	SDRAM data input/output terminal	
113	MD9	1/0	SDRAM data input/output terminal	
114	OVDD		VDD (3.3 V) for I/O	
115	ovss		Digital GND	
116	MD5	1/0	SDRAM data input/output terminal	
117	MD10	1/0	SDRAM data input/output terminal	
118	MD4	1/0	SDRAM data input/output terminal	
119	MD11	1/0	SDRAM data input/output terminal	
	OVDD	- 1/0	VDD (3.3 V) for I/O	
120	ovss		Digital GND	
121		1/0	SDRAM data input/output terminal	
122	MD3			
123	MD12	1/0	SDRAM data input/output terminal	
124	MD2	1/0	SDRAM data input/output terminal	
125	MD13	1/0	SDRAM data input/output terminal	
126	OVSS		Digital GND	
127	CVSS		Digital GND	
128	OVDD		VDD (3.3 V) for I/O	
129	MD1	1/0	SDRAM data input/output terminal	
130	MD14	1/0	SDRAM data input/output terminal	
131	MD0	1/0	SDRAM data input/output terminal	
132	MD15	1/0	SDRAM data input/output terminal	
133	SLV	<u> </u>	MPU Interface slave address setting input terminal	
134	RFFO	0	MPEG data (repeat_first_field flag) output terminal. When not in use, make it open.	
135	SDA	1/0	MPU Interface data input/output terminal	
136	SCL		MPU Interface clock input terminal	
137	SRN		System reset input terminal	
138	ovss		Digital GND	
139	CVDD		VDD (2.5 V) for the core	
140	PLL_VDD		VDD (2.5 V) dedicated for PLL	
141	VPDX		To be connected to ground	
142	TEST6	1	Input terminal dedicated for testing. To be connected to ground.	
143	PLL_GND	-	GND dedicated for PLL	
144	IVDD	_	VDD (3.3 V) for I/O	

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Disc / content format playback compatibility

General disc compatibility

This player was designed and engineered to be compatible with software bearing one or more of the following logos:















Audio CD

Video CD

CD-R

CD-RW







Super VCD*1

Super Audio CD

*1 Except DV-59AVi

Other formats, including but not limited to the following, are not playable in this player:

Photo CD, DVD-RAM, DVD-ROM, CD-ROM*2

*2Except those that contain MP3 files formatted as specified in the Compressed Audio Compatibility section.

DVD-R/RW and CD-R/RW discs (Audio CDs and Video CD/Super VCDs) recorded using a DVD recorder, CD recorder or personal computer may not be playable on this unit. This may be caused by a number of possibilities, including but not limited to: the type of disc used; the type of recording; damage, dirt or condensation on either the disc or the player's pick-up lens. See below for notes about particular software and formats.

CD-R/RW compatibility

- This unit will play CD-R and CD-RW discs recorded in CD Audio or Video CD/Super VCD format, or as a CD-ROM containing MP3 audio files. However, any other content may cause the disc not to play, or create noise/distortion in the output.
- This unit cannot record CD-R or CD-RW discs.
- · Unfinalized CD-R/RW discs recorded as CD Audio can be played, but the full Table of Contents (playing time, etc.) will not be displayed.

DVD-R/RW Compatibility

- This unit will play DVD-R/RW discs that were recorded using the DVD Video format or Video Recording format.
- · This unit cannot record DVD-R/RW discs.
- · Unfinalized DVD-R/RW discs cannot be played in this player.

Compressed Audio Compatibility

- This unit will play CD-ROM discs containing files saved in the MPEG-1 Audio Layer 3 format (MP3) with a sampling rate of 44.1 or 48kHz. Incompatible files will not play and UNPLAYABLE will be displayed on the unit.
- · Fixed bit-rate files are recommended. Variable bit-rate (VBR) files are playable, but playing time may not be shown correctly.
- The CD-ROM used to compile your MP3 files must be ISO 9660 Level 2 compliant.
- · CD physical format: Mode1, Mode2 XA Form1
- · This player only plays tracks that are named with the file extension ".mp3" or ".MP3".
- · This player is compatible with multisession discs, but only plays sessions that
- Use CD-R or CD-RW media for recording your MP3 files.
- · This player can recognize a combined total of up to 250 tracks and folders. If a disc containing over 250 tracks/folders is loaded, only the first 250 tracks/folders recorded on the disc will be playable.
- Folder and track names (excluding the ".mp3" extension) are displayed.
- · There are many different recording bitrates available to encode your MP3 files. This unit was designed to be compatible with all of them. Audio encoded at 128Kbps should sound close to regular CD Audio quality. This player will play lower bit-rate MP3 tracks, but please note that the sound quality becomes noticeably worse at lower bit-rates.

PC Created Disc Compatibility

- · If you record a disc using a personal computer, even if it is recorded in a "compatible format" as listed above, there will be cases in which the disc may not be playable in this machine due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.
- Check the DVD-R/RW or CD-R/RW software disc boxes for additional compatibility information.

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DV-59AVi

7.4 CLEANING



Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Pickup lenses	Cleaning liquid: GEM1004 Cleaning paper: GED-008

DWCOAN

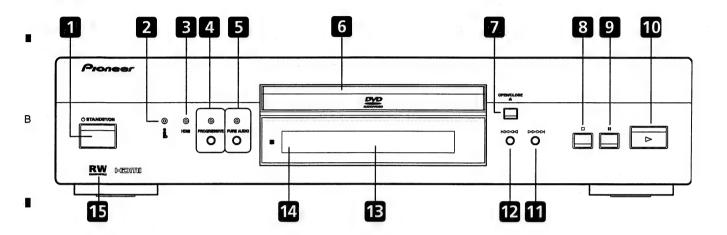
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8. PANEL FACILITIES

Front panel (DV-59AVi)



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1 & STANDBY/ON (DV-59AVi)

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D

Press to switch the player into standby.

2 i.LINK indicator

Lights when this player is recognized by another i.LINK compatible component.

3 HDMI indicator

Lights when this player is recognized by another HDMI or DVI/HDCP compatible component.

4 PROGRESSIVE button/indicator

Press to switch the component video output mode between progressive and interlace. The indicator lights in progressive scan mode.

Note

- When the Pure Audio feature is switched on, i.LINK- and HDMI-connected devices won't be recognized by the player.
- Press **DISPLAY** twice to see disc information on your TV when Pure Audio is on.

6 Disc tray

7 ▲ OPEN/CLOSE

Press to open or close the disc tray (when in standby, this button will also switch the power on).

8 **■** (stop)

Press to stop the disc (you can resume playback by pressing ► (play)).

9 II (pause)

Press to pause playback. Press again to restart.

10 ► (play)

Press to start or resume playback (when in standby, this button will also switch the power on).

11 ▶► ▶► (forward scan/skip)

- · Press and hold for fast forward scanning
- · Press to jump to the next chapter or track

12 ◄ ◄ (reverse scan/skip)

- · Press and hold for fast reverse scanning
- Press to jump back to the beginning of the current chapter or track, then to previous chapters/tracks

13 Display

14 Remote control sensor

The remote control has a range of up to about 7m.

15 RW

This mark indicates compatibility with DVD-RW discs recorded on a DVD recorder in Video Recording mode.

5 PURE AUDIO button/indicator

When the player is stopped, press to switch off/on the front panel display and disable the video and digital outputs*. Use this when you want to hear audio from the analog outputs with no interference from other signals (when listening to a DVD-Audio disc, for example).

- The indicator lights when the Pure Audio feature is switched on.
 - * These include i.LINK, HDMI, and the coaxial and optical digital outputs.

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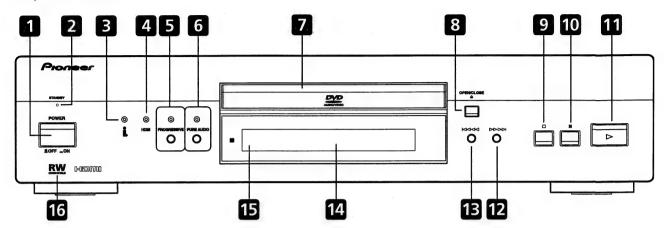
2

DV-59AVi

The following illustrations show the DV-868AVi, but connections for the DV-668AV are the same except where indicated

Front panel (DV-868AVi, DV-668AV)

5



POWER switch (DV-868AVi only)
Press to switch the player on or off (the player can be put into standby using the remote control; the STANDBY indicator above the button lights when in standby).

O STANDBY/ON (DV-668AV only)

Press to switch the player into standby.

- **2 STANDBY indicator** (*DV-868AVi only*) Lights when in standby.
- **3 i.LINK indicator** (*DV-868AVi only*) Lights when this player is recognized by another i.LINK compatible component.

4 HDMI indicator

Lights when this player is recognized by another HDMI or DVI/HDCP compatible component.

5 PROGRESSIVE button/indicator

Press to switch the component video output mode between progressive and interlace. The indicator lights in progressive scan mode.

 This player is compatible with both PAL and NTSC progressive scan formats. However, your TV must also be progressive scan compatible to take advantage of this feature.

6 PURE AUDIO button/indicator

When the player is stopped, press to switch off/on the front panel display and disable the video and digital outputs*. Use this when you want to hear audio from the analog outputs with no interference from other signals (when listening to a DVD-Audio disc, for example). The indicator lights when the Pure Audio feature is switched on.

* These include i.LINK, HDMI, and the coaxial and optical digital outputs.

Note

6

- When the Pure Audio feature is switched on, i.LINK- and HDMI-connected devices won't be recognized by the player.
- Press DISPLAY twice to see disc information on your TV when Pure Audio is on.

7 Disc tray

8 ▲ OPEN/CLOSE

Press to open or close the disc tray (when in standby, this button will also switch the power on)

9 **■** (stop)

Press to stop the disc (you can resume playback by pressing ► (play)).

10 II (pause)

Press to pause playback. Press again to restart.

11 ► (play)

Press to start or resume playback (when in standby, this button will also switch the power on).

12 ▶► ▶► (forward scan/skip)

- Press and hold for fast forward scanning
- Press to jump to the next chapter or track

13 I◀◀ ◀◀ (reverse scan/skip)

- · Press and hold for fast reverse scanning
- Press to jump back to the beginning of the current chapter or track, then to previous chapters/tracks

14 Display

15 Remote control sensor

The remote control has a range of up to about 7m.

16 RW

7

This mark indicates compatibility with DVD-RW discs recorded on a DVD recorder in Video Recording mode.

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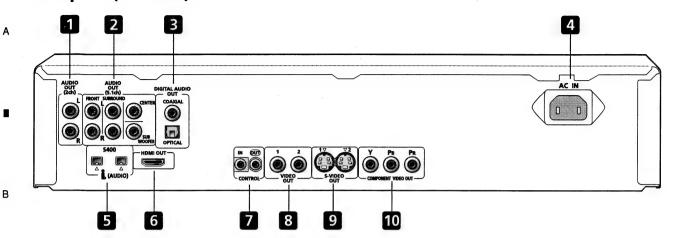
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DV-59AVi

Rear panel (DV-59AVi)

1



1 AUDIO OUT (2ch)

Two channel analog audio outputs for connection to your TV, AV receiver or stereo system.

2

2 AUDIO OUT (5.1ch)

Multichannel analog audio outputs for connection to an AV receiver with multichannel inputs.

3 DIGITAL AUDIO OUT – OPTICAL / COAXIAL

Digital audio outputs for connection to a PCM, Dolby Digital, DTS and/or MPEG-compatible AV receiver.

4 AC IN

Connect the supplied power cord here, then plug into a power outlet. Refer to the illustration below when doing so to make sure the neutral and live blades are lined up properly.



Power cord

AL N: Neu L: Live

5 (AUDIO) – i.LINK connectors

4-pin, \$400 i.LINK connectors for connection to i.LINK-equipped receivers and other components. Each i.LINK connector acts simultaneously as both input and output.

6 HDMI OUT

HDMI output providing a high quality interface for digital audio and video.

7 CONTROL IN / OUT

3

For passing remote control signals to other Pioneer components.

8 VIDEO OUT (1&2)

Standard video output(s) that you can connect to your TV or AV receiver using the supplied audio/video cable.

9 S-VIDEO OUT (1&2)

S-Video output(s) that you can use instead of the **VIDEO OUT** jacks.

10 COMPONENT VIDEO OUT

High quality video output for connection to a TV, monitor or AV receiver that has component video inputs.

Connect using a commercially available three-way component video cable.

Be careful to match the colors of the jacks and cables for correct connection.

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DV-59AVi

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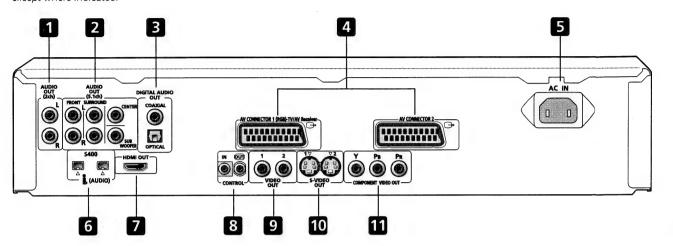
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Rear panel (DV-868AVi, DV-668AV)

The following illustrations show the DV-868AVi, but connections for the DV-668AV are the same except where indicated.

5



1 AUDIO OUT (2ch)

Two channel analog audio outputs for connection to your TV, AV receiver or stereo system.

2 AUDIO OUT (5.1ch)

Multichannel analog audio outputs for connection to an AV receiver with multichannel inputs.

3 DIGITAL AUDIO OUT – OPTICAL / COAXIAL

Digital audio outputs for connection to a PCM, Dolby Digital, DTS and/or MPEG-compatible AV receiver.

4 AV CONNECTOR

AV CONNECTOR 1 (RGB)-TV/AV Receiver

Use a 21-pin SCART cable to connect to a TV or monitor compatible with this type of connection. Both audio (2 channel stereo) and video (Video, S-video, and RGB) signals are output from the **AV CONNECTOR 1** (RGB)-TV.

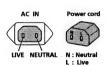
AV CONNECTOR 2

Use a 21-pin SCART cable to connect to a VCR.

5 AC IN

5

Connect the supplied power cord here, then plug into a power outlet. Refer to the illustration below when doing so to make sure the neutral and live blades are lined up properly.



(AUDIO) – i.LINK connectors

(DV-868AVi only)

4-pin, S400 i.LÍNK connectors for connection to i.LINK-equipped receivers and other components. Each i.LINK connector acts simultaneously as both input and output.

7 HDMI OUT

HDMI output providing a high quality interface for digital audio and video.

8 CONTROL IN / OUT

For passing remote control signals to other Pioneer components.

9 VIDEO OUT (1&2)

Standard video output(s) that you can connect to your TV or AV receiver using the supplied audio/video cable.

10 S-VIDEO OUT (1&2)

S-Video output(s) that you can use instead of the **VIDEO OUT** jacks.

11 COMPONENT VIDEO OUT

High quality video output for connection to a TV, monitor or AV receiver that has component video inputs.

Connect using a commercially available three-way component video cable.

Be careful to match the colors of the jacks and cables for correct connection.

DV-59AVI

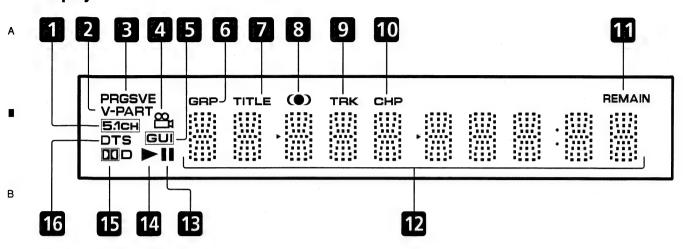
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1 5.1CH

Lights when analog 5.1 channel output is selected.

2 V-PART

Lights when playing a video part of a DVD disc.

3 PRGSVE

Lights when the video output is progressive scan.

4 🗀

Lights during multi-angle scenes on a DVD disc.

5 GUI (Graphical User Interface)

Lights when a menu is displayed on-screen.

6 GRP.

Indicates that the character display is showing a DVD-Audio group number

7 TITLE

Indicates that the character display is showing a DVD-Video title number.

8 (**

Lights when DDV/TruSurround is active.

9 TRK

Indicates that the character display is showing a track number.

10 CHP

Indicates that the character display is showing a DVD chapter number.

11 REMAIN

Lights when the character display is showing the time or number of tracks/titles/chapters remaining.

12 Character display

13 II

Lights when a disc is paused.

14 ▶

Lights when a disc is playing.

15 000

Lights when a Dolby Digital soundtrack is playing.

16 DTS

Lights when a DTS soundtrack is playing.

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DV-59AVi

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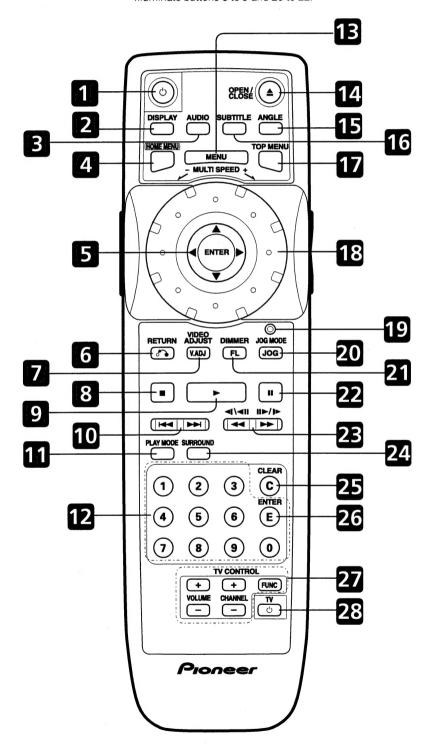
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Remote control

📭 Tip

- DV-59AVi only All buttons glow slightly in the dark for ease of use.
- DV-868AVi and DV-668AV only Press the button on the right side of the remote to illuminate buttons 6 to 9 and 20 to 22.



1 & STANDBY/ON

Press to switch the player on or into standby.

Press to display information about the disc playing.

Press to select the audio channel or language.

4 HOME MENU

Press to display (or exit) the on-screen display.

5 ENTER & Joystick

Use to navigate on-screen displays and menus. Press ENTER to select an option or execute a command.

♂ (RETURN)

Press to return to a previous menu screen.

7 V.ADJ (VIDEO ADJUST)

Press to display the Video Adjust menu.

Press to stop the disc (you can resume playback by pressing ► (play)).

Press to start or resume playback.

Press to jump to the start of the previous / next chapter / track.

11 PLAY MODE

Press to display the Play Mode menu (You can also get to the Play Mode menu by pressing HOME MENU and selecting Play Mode).

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13 MENU

Press to display a DVD disc menu, or the Disc Navigator if a DVD-RW, CD, Video CD/Super VCD or MP3 disc is loaded.

2

14 ▲ OPEN/CLOSE

Press to open or close the disc tray.

15 ANGLE

Press to change the camera angle during DVD multi-angle scene playback.

16 SUBTITLE

Press to select a subtitle display.

17 TOP MENU

Press to display the top menu of a DVD disc.

18 MULTI DIAL

Use for scanning and slow motion control

19 Jog indicator

Lights when multi dial is in jog mode.

20 JOG (JOG MODE)

Press to put switch jog mode on/off. When on, use the **MULTI DIAL** to advance or reverse frames.

21 FL (DIMMER)

Press to change the display brightness.

22 II

Press to pause playback; press again to restart.

23 **◄** and **◄**|/**◄**|| / ▶▶ and ||▶/|▶

Use for reverse / forward slow motion playback, frame reverse / advance and reverse / forward scanning.

24 SURROUND

Press to activate/switch off **DXIV/TruSur-round**.

25 CLEAR

Press to clear a numeric entry.

26 ENTER

Press to select an option or execute a command.

27 TV CONTROL buttons

DV-59AVi only

VOLUME

Use to adjust the volume.

CHANNEL

Use to select TV channel.

FUNC

Press **FUNC** to select the TV for remote control operation.

28 **७TV**

DV-59AVi only

Press \boldsymbol{OTV} to turn the TV on or into standby.

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2

DV-59AVi

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5 8 В С Ε

5 6 7 8

■ Jigs list

Name	Jig No.	Remarks
Service Remote Control Unit	GGF1381	diagnosis
DVD Data Disc	GGV1133	diagnosis (ID data setting)
17P Flexible Cable	GGF1157	Diagnosis of DVDM Assy
Extension Board	GGF1430	Diagnosis of DVDM Assy
DVD Test Disc (DVD-Video)	GGV1025	Check of DVD-Video
DVD Test Disc (DVD-Audio)	GGV1070	Check of DVD-Audio

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